

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: P252350

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1326.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

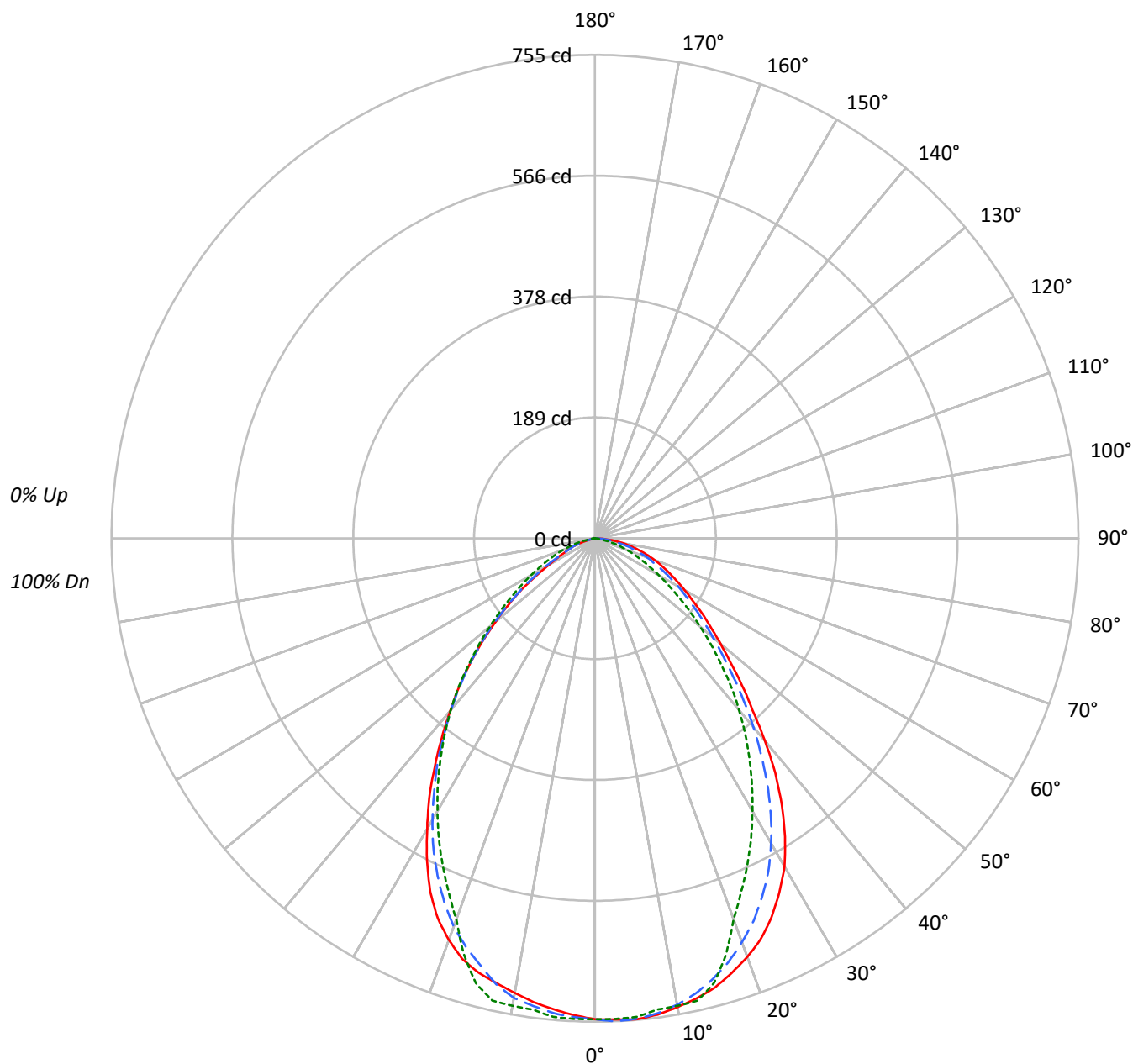
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49015	49015	49015
5°	49392	49137	48371
10°	49255	49129	47771
15°	49036	48570	47448
20°	48301	43969	46336
25°	46992	40528	43832
30°	44620	37049	39475
35°	40491	33490	34741
40°	35148	29834	29919
45°	29977	25659	25391
50°	25942	21690	20502
55°	23192	18085	15867
60°	21138	15018	10699
65°	19729	12350	7981
70°	18808	10053	6695
75°	17721	7134	2218
80°	16869	3682	751
85°	13848	2171	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	5.4
10°-20°	198.4	15.0
20°-30°	273.9	20.7
30°-40°	278.7	21.0
40°-50°	224.0	16.9
50°-60°	148.9	11.2
60°-70°	84.9	6.4
70°-80°	38.1	2.9
80°-90°	8.0	0.6
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°	543.3	41.0
0°-40°	822.0	62.0
0°-60°	1195.0	90.1
0°-90°	1326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	754	753	750	744	739	72
15°	726	712	719	691	702	204
25°	653	618	563	582	609	299
35°	508	469	420	428	436	316
45°	325	305	278	275	275	252
55°	204	190	159	142	140	183
65°	128	114	80	52	52	127
75°	70	58	28	12	9	75
85°	18	13	3	1	0	22
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°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	752.3	756.2	755.2	754.2	755.2	754.2	752.3	752.3	750.3	750.3	755.2
5°	754.2	756.2	755.2	754.2	754.2	755.2	751.3	751.3	749.4	748.4	753.3
7.5°	750.3	753.3	751.3	751.3	750.3	751.3	747.4	747.4	744.5	743.5	748.4
10°	743.5	747.4	745.5	745.5	745.5	743.5	741.6	740.6	737.7	736.7	739.6
12.5°	735.7	738.6	737.7	735.7	735.7	735.7	731.8	730.8	726.9	725.0	727.9
15°	726.0	727.9	726.9	726.0	724.0	724.0	720.1	718.1	714.2	710.3	712.3
17.5°	711.3	714.2	712.3	711.3	708.4	708.4	704.5	702.5	696.7	692.8	693.8
20°	695.7	696.7	695.7	693.8	690.8	689.9	685.9	682.0	677.2	672.3	671.3
22.5°	677.2	678.1	675.2	673.3	670.3	669.4	664.5	661.6	653.7	647.9	646.9
25°	652.8	653.7	653.7	648.9	646.9	645.0	640.1	635.2	628.4	620.6	617.6
27.5°	623.5	626.4	624.5	619.6	615.7	614.7	609.8	605.9	597.2	590.3	586.4
30°	592.3	591.3	590.3	587.4	581.5	580.6	575.7	570.8	564.0	555.2	550.3
32.5°	552.3	552.3	551.3	548.4	542.5	540.6	536.7	530.8	523.0	516.2	511.3
35°	508.4	509.3	508.4	502.5	498.6	496.7	494.7	487.9	481.0	473.2	469.3
37.5°	462.5	459.6	460.6	455.7	450.8	452.7	446.9	444.0	436.2	430.3	426.4
40°	412.7	414.7	410.8	408.8	405.9	403.0	403.0	398.1	394.2	387.4	385.4
42.5°	364.0	366.9	365.9	364.0	360.0	361.0	356.1	354.2	349.3	346.4	343.5
45°	324.9	324.9	324.9	323.0	322.0	320.0	317.1	314.2	311.3	307.4	305.4
47.5°	286.9	286.9	287.8	285.9	283.9	283.0	281.0	281.0	276.1	272.2	270.3
50°	255.6	255.6	255.6	253.7	251.7	251.7	249.8	247.8	244.9	242.0	240.0
52.5°	227.3	227.3	227.3	225.4	224.4	223.4	222.5	221.5	217.6	215.6	213.7
55°	203.9	203.0	203.0	202.0	200.0	200.0	199.1	197.1	194.2	191.2	190.3
57.5°	180.5	181.5	180.5	180.5	178.6	178.6	176.6	175.6	172.7	170.8	168.8
60°	162.0	162.0	162.0	161.0	159.0	160.0	158.1	157.1	154.2	151.2	149.3
62.5°	143.4	144.4	144.4	143.4	141.5	141.5	140.5	139.5	136.6	133.7	130.7
65°	127.8	127.8	127.8	126.8	125.9	125.9	124.9	123.9	121.0	117.1	114.2
67.5°	113.2	112.2	112.2	112.2	111.2	110.3	109.3	108.3	105.4	102.5	98.6
70°	98.6	98.6	98.6	97.6	95.6	96.6	95.6	94.6	91.7	88.8	85.9
72.5°	84.9	84.9	83.9	82.9	82.9	82.0	82.0	81.0	78.1	74.2	71.2
75°	70.3	70.3	70.3	70.3	68.3	69.3	67.3	66.4	64.4	61.5	58.5
77.5°	57.6	57.6	57.6	56.6	55.6	55.6	54.6	53.7	50.7	48.8	44.9
80°	44.9	44.9	44.9	44.9	43.9	42.9	42.0	41.0	39.0	36.1	33.2
82.5°	33.2	33.2	32.2	32.2	32.2	31.2	30.2	29.3	27.3	25.4	23.4
85°	18.5	19.5	19.5	17.6	18.5	17.6	17.6	15.6	15.6	13.7	12.7
87.5°	6.8	5.9	5.9	5.9	5.9	5.9	5.9	4.9	4.9	4.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	751.3	750.3	754.2	754.2	748.4	751.3	752.3	750.3	750.3	751.3	748.4
5°	749.4	747.4	751.3	752.3	746.4	749.4	750.3	748.4	749.4	750.3	746.4
7.5°	742.5	742.5	745.5	746.4	740.6	743.5	743.5	741.6	742.5	742.5	739.6
10°	735.7	732.8	735.7	735.7	730.8	731.8	733.8	732.8	736.7	741.6	741.6
12.5°	723.0	720.1	725.0	725.0	722.1	726.0	730.8	733.8	737.7	739.6	733.8
15°	707.4	708.4	717.2	724.0	721.1	726.9	731.8	729.9	725.0	719.1	710.3
17.5°	686.9	684.0	691.8	695.7	691.8	693.8	697.7	693.8	685.9	681.1	669.4
20°	663.5	655.7	655.7	653.7	646.9	646.9	645.9	639.1	636.2	633.3	628.4
22.5°	637.2	628.4	625.5	619.6	613.7	612.8	609.8	603.0	599.1	597.2	591.3
25°	606.9	599.1	594.2	588.4	579.6	577.6	574.7	567.9	565.9	563.0	558.1
27.5°	575.7	565.9	559.1	553.2	545.4	544.5	538.6	533.7	529.8	527.9	524.0
30°	539.6	528.9	524.0	516.2	510.3	508.4	503.5	496.7	493.7	491.8	488.8
32.5°	499.6	490.8	485.9	479.1	471.3	472.3	466.4	460.6	458.6	456.6	453.7
35°	460.6	451.8	445.9	440.1	435.2	433.2	429.3	424.4	421.5	420.5	418.6
37.5°	417.6	410.8	405.9	400.1	396.2	394.2	392.2	387.4	385.4	385.4	381.5
40°	375.7	369.8	365.9	363.0	358.1	357.1	355.2	352.2	351.3	350.3	347.4
42.5°	337.6	329.8	326.9	324.9	322.0	320.0	319.1	317.1	316.1	315.2	312.2
45°	301.5	294.7	291.7	289.8	286.9	285.9	284.9	282.0	280.0	278.1	277.1
47.5°	266.4	261.5	260.5	255.6	253.7	251.7	249.8	247.8	246.9	245.9	242.0
50°	236.1	233.2	228.3	225.4	223.4	222.5	218.6	215.6	214.7	213.7	210.8
52.5°	208.8	204.9	202.0	197.1	196.1	194.2	192.2	188.3	186.4	185.4	182.5
55°	184.4	181.5	177.6	173.7	170.8	169.8	166.9	162.9	161.0	159.0	157.1
57.5°	163.9	159.0	155.1	151.2	149.3	146.4	143.4	141.5	138.6	135.6	132.7
60°	144.4	140.5	135.6	131.7	129.8	127.8	123.9	121.0	118.1	115.1	112.2
62.5°	125.9	122.0	117.1	113.2	111.2	109.3	105.4	102.5	99.5	96.6	92.7
65°	109.3	105.4	101.5	97.6	95.6	93.7	89.8	85.9	82.9	80.0	76.1
67.5°	95.6	90.7	86.8	82.9	81.0	79.0	75.1	72.2	68.3	65.4	61.5
70°	81.0	77.1	74.2	70.3	68.3	66.4	62.4	58.5	55.6	52.7	48.8
72.5°	68.3	63.4	60.5	56.6	54.6	53.7	49.8	46.8	43.9	40.0	37.1
75°	54.6	50.7	46.8	43.9	42.0	41.0	37.1	34.2	31.2	28.3	25.4
77.5°	42.0	39.0	35.1	32.2	30.2	29.3	25.4	22.4	19.5	17.6	14.6
80°	31.2	27.3	25.4	22.4	21.5	19.5	17.6	14.6	12.7	9.8	7.8
82.5°	21.5	18.5	16.6	14.6	13.7	12.7	10.7	8.8	6.8	5.9	4.9
85°	11.7	9.8	8.8	7.8	6.8	6.8	5.9	4.9	3.9	2.9	2.0
87.5°	3.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	750.3	750.3	750.3	749.4	749.4	749.4	748.4	752.3	748.4	747.4	750.3
5°	749.4	747.4	747.4	747.4	747.4	746.4	745.5	747.4	744.5	743.5	743.5
7.5°	743.5	742.5	742.5	741.6	740.6	739.6	738.6	739.6	736.7	735.7	735.7
10°	744.5	742.5	742.5	739.6	737.7	734.7	731.8	732.8	728.9	726.0	726.0
12.5°	732.8	727.9	725.0	722.1	720.1	719.1	715.2	717.2	713.3	712.3	712.3
15°	706.4	700.6	695.7	693.8	693.8	691.8	688.9	692.8	690.8	691.8	696.7
17.5°	665.5	662.5	659.6	658.6	659.6	661.6	663.5	669.4	669.4	672.3	677.2
20°	629.4	627.4	629.4	629.4	630.3	634.2	638.1	643.0	645.0	647.9	654.7
22.5°	594.2	594.2	596.2	599.1	598.1	605.0	605.9	614.7	614.7	620.6	626.4
25°	560.1	560.1	562.0	563.0	565.0	568.9	572.8	579.6	581.5	587.4	592.3
27.5°	526.9	525.9	525.9	526.9	528.9	533.7	535.7	543.5	546.4	550.3	555.2
30°	489.8	488.8	490.8	492.8	491.8	496.7	499.6	505.4	507.4	511.3	515.2
32.5°	454.7	454.7	454.7	456.6	456.6	460.6	460.6	467.4	467.4	470.3	474.2
35°	418.6	418.6	419.6	420.5	421.5	422.5	423.5	427.4	428.4	429.3	431.3
37.5°	384.4	383.5	384.4	384.4	382.5	386.4	386.4	390.3	387.4	390.3	391.3
40°	349.3	349.3	348.3	348.3	348.3	350.3	348.3	351.3	349.3	351.3	350.3
42.5°	313.2	313.2	311.3	313.2	312.2	312.2	312.2	314.2	311.3	313.2	314.2
45°	277.1	276.1	276.1	275.2	275.2	275.2	276.1	276.1	275.2	277.1	277.1
47.5°	242.0	241.0	241.0	241.0	241.0	242.0	239.1	241.0	239.1	239.1	239.1
50°	211.7	210.8	209.8	208.8	207.8	207.8	206.9	206.9	204.9	203.9	203.0
52.5°	182.5	181.5	179.5	179.5	178.6	177.6	174.7	174.7	171.7	170.8	170.8
55°	156.1	153.2	152.2	150.3	150.3	148.3	146.4	144.4	141.5	139.5	139.5
57.5°	131.7	128.8	126.8	125.9	124.9	122.9	119.0	118.1	114.2	113.2	112.2
60°	110.3	107.3	104.4	102.5	101.5	98.6	94.6	92.7	90.7	87.8	84.9
62.5°	89.8	86.8	82.9	82.0	80.0	77.1	74.2	71.2	69.3	66.4	64.4
65°	72.2	69.3	66.4	64.4	62.4	59.5	56.6	53.7	51.7	50.7	49.8
67.5°	58.5	54.6	51.7	50.7	48.8	46.8	43.9	42.9	41.0	41.0	41.0
70°	45.9	42.9	40.0	39.0	38.1	36.1	34.2	34.2	34.2	34.2	34.2
72.5°	34.2	32.2	29.3	28.3	27.3	26.3	24.4	25.4	24.4	24.4	24.4
75°	21.5	19.5	17.6	16.6	15.6	14.6	13.7	12.7	11.7	10.7	10.7
77.5°	11.7	9.8	8.8	7.8	7.8	6.8	5.9	5.9	4.9	4.9	4.9
80°	6.8	5.9	4.9	3.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0
82.5°	3.9	2.9	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
85°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	745.5	748.4	745.5	748.4	748.4	748.4	748.4	745.5
5°	740.6	742.5	739.6	741.6	742.5	741.6	741.6	738.6
7.5°	731.8	733.8	730.8	733.8	734.7	733.8	732.8	730.8
10°	723.0	724.0	721.1	723.0	725.0	725.0	724.0	721.1
12.5°	709.4	712.3	709.4	711.3	713.3	714.2	714.2	711.3
15°	693.8	698.6	696.7	699.6	702.5	703.5	703.5	702.5
17.5°	678.1	683.0	680.1	685.0	687.9	689.9	690.8	688.9
20°	655.7	661.6	659.6	663.5	667.4	670.3	670.3	667.4
22.5°	626.4	634.2	633.3	636.2	641.1	642.0	644.0	642.0
25°	594.2	600.1	599.1	602.0	607.9	607.9	608.9	608.9
27.5°	557.1	563.0	562.0	564.0	567.9	568.9	569.8	567.9
30°	517.1	520.1	520.1	523.0	525.9	526.9	526.9	524.0
32.5°	473.2	477.1	479.1	478.1	481.0	483.0	482.0	482.0
35°	433.2	434.2	435.2	436.2	437.1	439.1	437.1	436.2
37.5°	390.3	393.2	391.3	393.2	395.2	394.2	393.2	393.2
40°	351.3	352.2	350.3	352.2	353.2	353.2	353.2	351.3
42.5°	312.2	314.2	312.2	314.2	314.2	314.2	314.2	313.2
45°	273.2	275.2	275.2	276.1	276.1	275.2	275.2	275.2
47.5°	237.1	239.1	237.1	239.1	240.0	238.1	238.1	238.1
50°	203.0	202.0	202.0	203.0	203.0	203.0	203.0	202.0
52.5°	167.8	168.8	168.8	168.8	169.8	168.8	169.8	169.8
55°	137.6	137.6	137.6	138.6	137.6	137.6	138.6	139.5
57.5°	110.3	109.3	108.3	108.3	109.3	108.3	108.3	108.3
60°	84.9	83.9	82.9	82.9	82.9	82.9	82.9	82.0
62.5°	63.4	63.4	63.4	64.4	64.4	64.4	64.4	65.4
65°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	51.7
67.5°	41.0	41.0	41.0	42.0	42.0	42.0	42.0	42.0
70°	34.2	34.2	35.1	34.2	35.1	35.1	35.1	35.1
72.5°	23.4	23.4	23.4	23.4	23.4	22.4	23.4	22.4
75°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	8.8
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
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)