

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: P252373

Luminaire Tested: **LD6B20D010 EU6B10209727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252373
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: LD6B20D010 EU6B10209727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1316.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

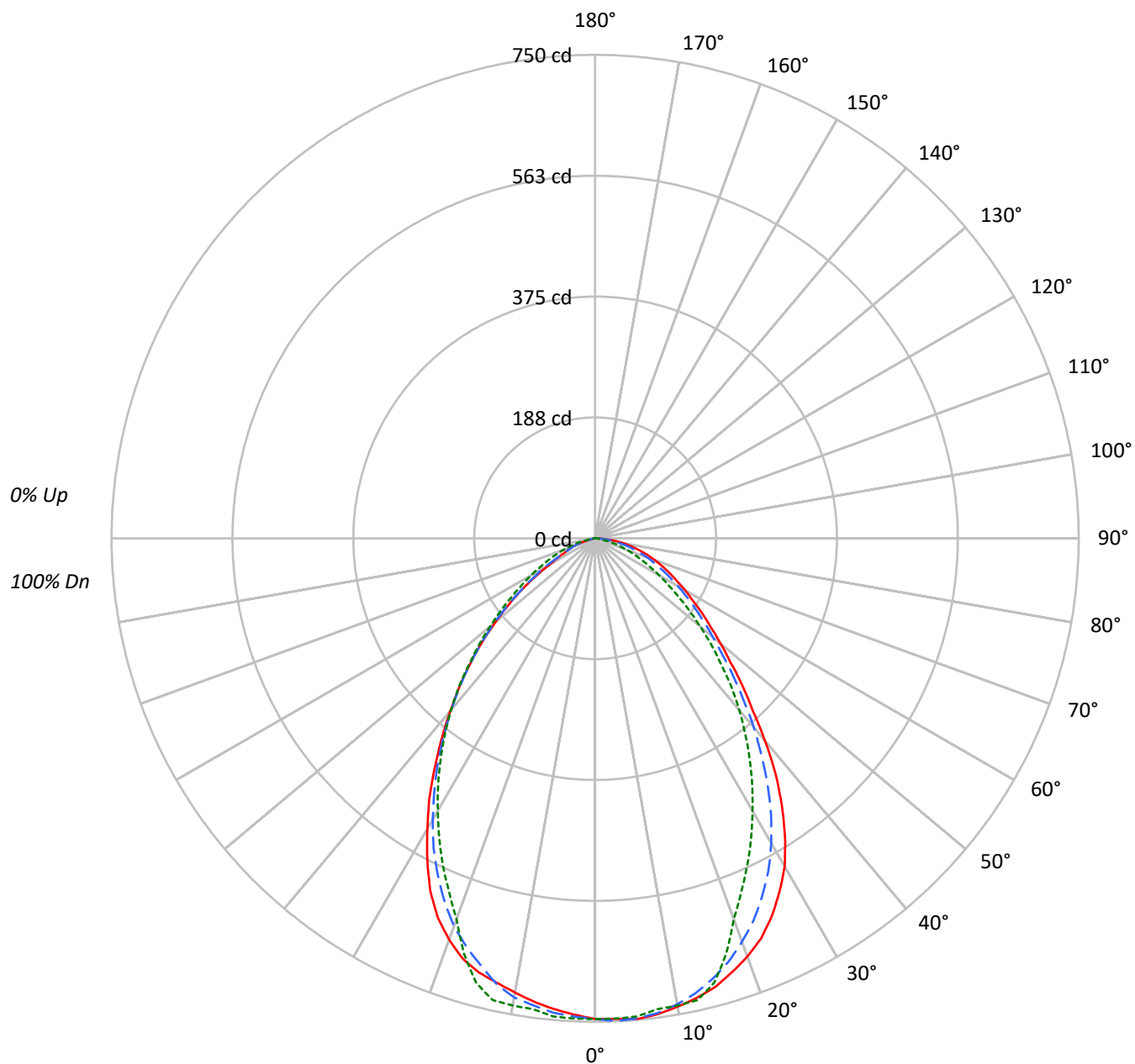
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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		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°	48650	48650	48650
5°	49026	48770	48011
10°	48884	48758	47406
15°	48664	48205	47090
20°	47940	43635	45989
25°	46632	40225	43501
30°	44281	36770	39173
35°	40180	33243	34478
40°	34884	29612	29689
45°	29755	25465	25197
50°	25750	21527	20350
55°	23022	17949	15753
60°	20981	14914	10608
65°	19590	12257	7919
70°	18655	9976	6657
75°	17569	7083	2193
80°	16719	3644	714
85°	13773	2171	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	5.4
10°-20°	196.9	15.0
20°-30°	271.8	20.7
30°-40°	276.6	21.0
40°-50°	222.3	16.9
50°-60°	147.8	11.2
60°-70°	84.2	6.4
70°-80°	37.8	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°	539.2	41.0
0°-40°	815.8	62.0
0°-60°	1186.0	90.1
0°-90°	1316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	746	746	746	746	746	
5°	749	748	745	739	733	71
15°	720	707	714	686	697	203
25°	648	613	559	577	604	297
35°	504	466	417	425	433	314
45°	322	303	276	273	273	250
55°	202	189	158	140	138	182
65°	127	113	79	51	51	126
75°	70	58	28	12	9	74
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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	746.6	750.5	749.5	748.6	749.5	748.6	746.6	746.6	744.7	744.7	749.5
5°	748.6	750.5	749.5	748.6	748.6	749.5	745.7	745.7	743.7	742.8	747.6
7.5°	744.7	747.6	745.7	745.7	744.7	745.7	741.8	741.8	738.9	737.9	742.8
10°	737.9	741.8	739.8	739.8	739.8	737.9	736.0	735.0	732.1	731.1	734.0
12.5°	730.2	733.1	732.1	730.2	730.2	730.2	726.3	725.3	721.4	719.5	722.4
15°	720.5	722.4	721.4	720.5	718.5	718.5	714.7	712.7	708.9	705.0	706.9
17.5°	706.0	708.9	706.9	706.0	703.0	703.0	699.2	697.2	691.4	687.6	688.5
20°	690.5	691.4	690.5	688.5	685.6	684.6	680.8	676.9	672.1	667.2	666.2
22.5°	672.1	673.0	670.1	668.2	665.3	664.3	659.5	656.6	648.8	643.0	642.0
25°	647.8	648.8	648.8	644.0	642.0	640.1	635.3	630.4	623.6	615.9	613.0
27.5°	618.8	621.7	619.8	614.9	611.1	610.1	605.2	601.4	592.7	585.9	582.0
30°	587.8	586.8	585.9	583.0	577.2	576.2	571.3	566.5	559.7	551.0	546.2
32.5°	548.1	548.1	547.1	544.2	538.4	536.5	532.6	526.8	519.1	512.3	507.4
35°	504.5	505.5	504.5	498.7	494.8	492.9	491.0	484.2	477.4	469.7	465.8
37.5°	459.0	456.1	457.1	452.2	447.4	449.3	443.5	440.6	432.9	427.1	423.2
40°	409.6	411.6	407.7	405.8	402.8	399.9	399.9	395.1	391.2	384.4	382.5
42.5°	361.2	364.1	363.1	361.2	357.3	358.3	353.5	351.5	346.7	343.8	340.9
45°	322.5	322.5	322.5	320.5	319.6	317.6	314.7	311.8	308.9	305.0	303.1
47.5°	284.7	284.7	285.7	283.7	281.8	280.8	278.9	278.9	274.1	270.2	268.2
50°	253.7	253.7	253.7	251.8	249.8	249.8	247.9	246.0	243.1	240.2	238.2
52.5°	225.6	225.6	225.6	223.7	222.7	221.8	220.8	219.8	215.9	214.0	212.1
55°	202.4	201.4	201.4	200.5	198.5	198.5	197.6	195.6	192.7	189.8	188.8
57.5°	179.2	180.1	179.2	179.2	177.2	177.2	175.3	174.3	171.4	169.5	167.5
60°	160.8	160.8	160.8	159.8	157.8	158.8	156.9	155.9	153.0	150.1	148.2
62.5°	142.4	143.3	143.3	142.4	140.4	140.4	139.4	138.5	135.6	132.7	129.8
65°	126.9	126.9	126.9	125.9	124.9	124.9	124.0	123.0	120.1	116.2	113.3
67.5°	112.3	111.4	111.4	111.4	110.4	109.4	108.5	107.5	104.6	101.7	97.8
70°	97.8	97.8	97.8	96.8	94.9	95.9	94.9	93.9	91.0	88.1	85.2
72.5°	84.2	84.2	83.3	82.3	82.3	81.3	81.3	80.4	77.5	73.6	70.7
75°	69.7	69.7	69.7	69.7	67.8	68.8	66.8	65.9	63.9	61.0	58.1
77.5°	57.1	57.1	57.1	56.2	55.2	55.2	54.2	53.3	50.4	48.4	44.5
80°	44.5	44.5	44.5	44.5	43.6	42.6	41.6	40.7	38.7	35.8	32.9
82.5°	32.9	32.9	32.0	32.0	32.0	31.0	30.0	29.1	27.1	25.2	23.2
85°	18.4	19.4	19.4	17.4	18.4	17.4	17.4	15.5	15.5	13.6	12.6
87.5°	6.8	5.8	5.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8	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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	745.7	744.7	748.6	748.6	742.8	745.7	746.6	744.7	744.7	745.7	742.8
5°	743.7	741.8	745.7	746.6	740.8	743.7	744.7	742.8	743.7	744.7	740.8
7.5°	736.9	736.9	739.8	740.8	735.0	737.9	737.9	736.0	736.9	736.9	734.0
10°	730.2	727.3	730.2	730.2	725.3	726.3	728.2	727.3	731.1	736.0	736.0
12.5°	717.6	714.7	719.5	719.5	716.6	720.5	725.3	728.2	732.1	734.0	728.2
15°	702.1	703.0	711.8	718.5	715.6	721.4	726.3	724.4	719.5	713.7	705.0
17.5°	681.7	678.8	686.6	690.5	686.6	688.5	692.4	688.5	680.8	675.9	664.3
20°	658.5	650.8	650.8	648.8	642.0	642.0	641.1	634.3	631.4	628.5	623.6
22.5°	632.4	623.6	620.7	614.9	609.1	608.1	605.2	598.5	594.6	592.7	586.8
25°	602.3	594.6	589.7	583.9	575.2	573.3	570.4	563.6	561.7	558.8	553.9
27.5°	571.3	561.7	554.9	549.1	541.3	540.4	534.5	529.7	525.8	523.9	520.0
30°	535.5	524.9	520.0	512.3	506.5	504.5	499.7	492.9	490.0	488.1	485.2
32.5°	495.8	487.1	482.3	475.5	467.7	468.7	462.9	457.1	455.1	453.2	450.3
35°	457.1	448.4	442.6	436.7	431.9	430.0	426.1	421.2	418.3	417.4	415.4
37.5°	414.5	407.7	402.8	397.0	393.2	391.2	389.3	384.4	382.5	382.5	378.6
40°	372.8	367.0	363.1	360.2	355.4	354.4	352.5	349.6	348.6	347.7	344.7
42.5°	335.1	327.3	324.4	322.5	319.6	317.6	316.7	314.7	313.8	312.8	309.9
45°	299.2	292.5	289.5	287.6	284.7	283.7	282.8	279.9	277.9	276.0	275.0
47.5°	264.4	259.5	258.6	253.7	251.8	249.8	247.9	246.0	245.0	244.0	240.2
50°	234.3	231.4	226.6	223.7	221.8	220.8	216.9	214.0	213.0	212.1	209.2
52.5°	207.2	203.4	200.5	195.6	194.6	192.7	190.8	186.9	185.0	184.0	181.1
55°	183.0	180.1	176.2	172.4	169.5	168.5	165.6	161.7	159.8	157.8	155.9
57.5°	162.7	157.8	154.0	150.1	148.2	145.3	142.4	140.4	137.5	134.6	131.7
60°	143.3	139.4	134.6	130.7	128.8	126.9	123.0	120.1	117.2	114.3	111.4
62.5°	124.9	121.0	116.2	112.3	110.4	108.5	104.6	101.7	98.8	95.9	92.0
65°	108.5	104.6	100.7	96.8	94.9	93.0	89.1	85.2	82.3	79.4	75.5
67.5°	94.9	90.1	86.2	82.3	80.4	78.4	74.6	71.7	67.8	64.9	61.0
70°	80.4	76.5	73.6	69.7	67.8	65.9	62.0	58.1	55.2	52.3	48.4
72.5°	67.8	62.9	60.0	56.2	54.2	53.3	49.4	46.5	43.6	39.7	36.8
75°	54.2	50.4	46.5	43.6	41.6	40.7	36.8	33.9	31.0	28.1	25.2
77.5°	41.6	38.7	34.9	32.0	30.0	29.1	25.2	22.3	19.4	17.4	14.5
80°	31.0	27.1	25.2	22.3	21.3	19.4	17.4	14.5	12.6	9.7	7.7
82.5°	21.3	18.4	16.5	14.5	13.6	12.6	10.7	8.7	6.8	5.8	4.8
85°	11.6	9.7	8.7	7.7	6.8	6.8	5.8	4.8	3.9	2.9	1.9
87.5°	3.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	744.7	744.7	744.7	743.7	743.7	743.7	742.8	746.6	742.8	741.8	744.7
5°	743.7	741.8	741.8	741.8	741.8	740.8	739.8	741.8	738.9	737.9	737.9
7.5°	737.9	736.9	736.9	736.0	735.0	734.0	733.1	734.0	731.1	730.2	730.2
10°	738.9	736.9	736.9	734.0	732.1	729.2	726.3	727.3	723.4	720.5	720.5
12.5°	727.3	722.4	719.5	716.6	714.7	713.7	709.8	711.8	707.9	706.9	706.9
15°	701.1	695.3	690.5	688.5	688.5	686.6	683.7	687.6	685.6	686.6	691.4
17.5°	660.4	657.5	654.6	653.7	654.6	656.6	658.5	664.3	664.3	667.2	672.1
20°	624.6	622.7	624.6	624.6	625.6	629.5	633.3	638.2	640.1	643.0	649.8
22.5°	589.7	589.7	591.7	594.6	593.6	600.4	601.4	610.1	610.1	615.9	621.7
25°	555.9	555.9	557.8	558.8	560.7	564.6	568.4	575.2	577.2	583.0	587.8
27.5°	522.9	522.0	522.0	522.9	524.9	529.7	531.6	539.4	542.3	546.2	551.0
30°	486.1	485.2	487.1	489.0	488.1	492.9	495.8	501.6	503.6	507.4	511.3
32.5°	451.3	451.3	451.3	453.2	453.2	457.1	457.1	463.9	463.9	466.8	470.6
35°	415.4	415.4	416.4	417.4	418.3	419.3	420.3	424.2	425.1	426.1	428.0
37.5°	381.5	380.6	381.5	381.5	379.6	383.5	383.5	387.4	384.4	387.4	388.3
40°	346.7	346.7	345.7	345.7	345.7	347.7	345.7	348.6	346.7	348.6	347.7
42.5°	310.9	310.9	308.9	310.9	309.9	309.9	309.9	311.8	308.9	310.9	311.8
45°	275.0	274.1	274.1	273.1	273.1	273.1	274.1	274.1	273.1	275.0	275.0
47.5°	240.2	239.2	239.2	239.2	239.2	240.2	237.3	239.2	237.3	237.3	237.3
50°	210.1	209.2	208.2	207.2	206.3	206.3	205.3	205.3	203.4	202.4	201.4
52.5°	181.1	180.1	178.2	178.2	177.2	176.2	173.3	173.3	170.4	169.5	169.5
55°	154.9	152.0	151.1	149.1	149.1	147.2	145.3	143.3	140.4	138.5	138.5
57.5°	130.7	127.8	125.9	124.9	124.0	122.0	118.1	117.2	113.3	112.3	111.4
60°	109.4	106.5	103.6	101.7	100.7	97.8	93.9	92.0	90.1	87.2	84.2
62.5°	89.1	86.2	82.3	81.3	79.4	76.5	73.6	70.7	68.8	65.9	63.9
65°	71.7	68.8	65.9	63.9	62.0	59.1	56.2	53.3	51.3	50.4	49.4
67.5°	58.1	54.2	51.3	50.4	48.4	46.5	43.6	42.6	40.7	40.7	40.7
70°	45.5	42.6	39.7	38.7	37.8	35.8	33.9	33.9	33.9	33.9	33.9
72.5°	33.9	32.0	29.1	28.1	27.1	26.1	24.2	25.2	24.2	24.2	24.2
75°	21.3	19.4	17.4	16.5	15.5	14.5	13.6	12.6	11.6	10.7	10.7
77.5°	11.6	9.7	8.7	7.7	7.7	6.8	5.8	5.8	4.8	4.8	4.8
80°	6.8	5.8	4.8	3.9	3.9	2.9	2.9	2.9	2.9	1.9	1.9
82.5°	3.9	2.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
85°	1.9	1.9	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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	739.8	742.8	739.8	742.8	742.8	742.8	742.8	739.8
5°	735.0	736.9	734.0	736.0	736.9	736.0	736.0	733.1
7.5°	726.3	728.2	725.3	728.2	729.2	728.2	727.3	725.3
10°	717.6	718.5	715.6	717.6	719.5	719.5	718.5	715.6
12.5°	704.0	706.9	704.0	706.0	707.9	708.9	708.9	706.0
15°	688.5	693.4	691.4	694.3	697.2	698.2	698.2	697.2
17.5°	673.0	677.9	675.0	679.8	682.7	684.6	685.6	683.7
20°	650.8	656.6	654.6	658.5	662.4	665.3	665.3	662.4
22.5°	621.7	629.5	628.5	631.4	636.2	637.2	639.1	637.2
25°	589.7	595.6	594.6	597.5	603.3	603.3	604.3	604.3
27.5°	552.9	558.8	557.8	559.7	563.6	564.6	565.5	563.6
30°	513.2	516.1	516.1	519.1	522.0	522.9	522.9	520.0
32.5°	469.7	473.5	475.5	474.5	477.4	479.4	478.4	478.4
35°	430.0	430.9	431.9	432.9	433.8	435.8	433.8	432.9
37.5°	387.4	390.3	388.3	390.3	392.2	391.2	390.3	390.3
40°	348.6	349.6	347.7	349.6	350.6	350.6	350.6	348.6
42.5°	309.9	311.8	309.9	311.8	311.8	311.8	311.8	310.9
45°	271.1	273.1	273.1	274.1	274.1	273.1	273.1	273.1
47.5°	235.3	237.3	235.3	237.3	238.2	236.3	236.3	236.3
50°	201.4	200.5	200.5	201.4	201.4	201.4	201.4	200.5
52.5°	166.6	167.5	167.5	167.5	168.5	167.5	168.5	168.5
55°	136.5	136.5	136.5	137.5	136.5	136.5	137.5	138.5
57.5°	109.4	108.5	107.5	107.5	108.5	107.5	107.5	107.5
60°	84.2	83.3	82.3	82.3	82.3	82.3	82.3	81.3
62.5°	62.9	62.9	62.9	63.9	63.9	63.9	63.9	64.9
65°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	51.3
67.5°	40.7	40.7	40.7	41.6	41.6	41.6	41.6	41.6
70°	33.9	33.9	34.9	33.9	34.9	34.9	34.9	34.9
72.5°	23.2	23.2	23.2	23.2	23.2	22.3	23.2	22.3
75°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	8.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)