

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: P252567

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252567  
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 EU6B10209050 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1273.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

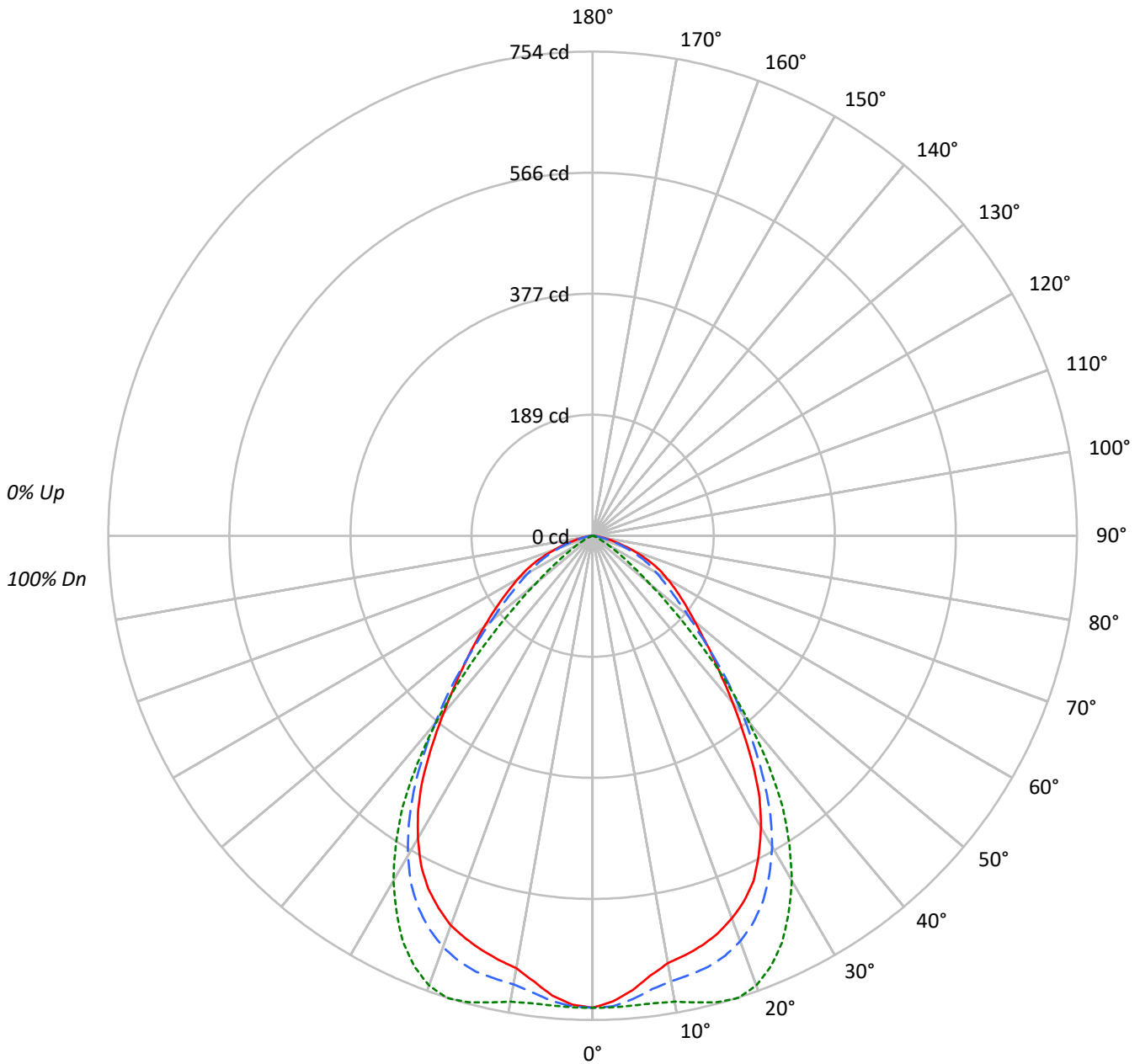
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	47952	47952	47952
5°	46517	48076	47074
10°	44750	48804	45313
15°	44591	50792	45105
20°	44010	51737	44836
25°	42694	50274	43609
30°	39490	46729	40966
35°	34645	41080	36676
40°	28871	32201	30753
45°	24302	21248	25945
50°	21040	11642	22339
55°	19041	6188	19518
60°	17511	3210	17511
65°	15869	1698	15484
70°	12799	973	11827
75°	8772	630	8142
80°	5748	301	5110
85°	3818	599	3144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	5.4
10°-20°	198.2	15.6
20°-30°	292.8	23.0
30°-40°	295.8	23.2
40°-50°	203.8	16.0
50°-60°	117.1	9.2
60°-70°	68.1	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°	559.5	44.0
0°-40°	855.3	67.2
0°-60°	1176.2	92.4
0°-90°	1273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1273.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	735	735	735	735	735	
5°	710	724	734	727	719	67
15°	660	695	752	703	668	186
25°	593	628	698	641	606	270
35°	435	465	516	486	460	270
45°	263	267	230	284	281	205
55°	167	147	54	153	172	151
65°	103	87	11	86	100	101
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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	725.6	726.5	727.3	726.5	727.3	730.7	728.2	729.9	729.9	730.7	733.3
5°	710.3	710.3	712.0	711.2	713.7	717.1	714.6	717.1	718.0	719.7	723.9
7.5°	690.8	690.8	691.6	691.6	695.0	698.4	696.7	700.1	703.5	706.9	712.0
10°	675.5	677.2	677.2	678.0	681.4	685.7	684.8	689.1	692.5	697.6	704.4
12.5°	668.7	669.5	669.5	671.2	674.6	678.9	678.0	682.3	687.4	693.3	700.1
15°	660.2	661.9	661.0	662.7	666.1	670.4	669.5	673.8	679.7	685.7	695.0
17.5°	649.1	650.0	650.8	650.8	654.2	657.6	657.6	661.9	668.7	675.5	685.7
20°	633.9	635.6	635.6	636.4	639.0	644.1	643.2	647.5	654.2	661.0	672.1
22.5°	616.0	616.9	616.9	617.7	622.0	624.5	625.4	628.8	634.7	642.4	652.5
25°	593.1	593.9	593.1	595.6	597.3	602.4	600.7	605.0	611.8	617.7	627.9
27.5°	559.9	561.6	561.6	562.5	566.7	571.0	571.0	575.2	581.2	585.4	595.6
30°	524.2	526.8	524.2	528.5	530.2	533.6	536.1	538.7	543.8	549.7	559.1
32.5°	483.5	482.6	483.5	485.2	490.3	492.8	494.5	497.1	502.2	507.3	514.9
35°	435.0	436.7	437.6	441.0	441.0	445.2	446.1	447.8	455.4	458.8	464.8
37.5°	384.1	385.8	386.6	388.3	391.7	393.4	395.9	398.5	403.6	409.5	412.9
40°	339.0	339.0	339.9	341.6	344.1	345.0	347.5	350.9	354.3	359.4	362.8
42.5°	296.5	297.4	296.5	298.2	300.8	304.2	303.3	307.6	308.4	311.8	314.4
45°	263.4	263.4	261.7	263.4	263.4	266.8	265.9	267.6	266.8	268.5	266.8
47.5°	232.0	232.8	232.0	232.8	232.8	232.8	233.7	232.0	232.8	230.3	225.2
50°	207.3	208.2	206.5	207.3	206.5	205.6	206.5	203.9	203.1	199.7	194.6
52.5°	186.1	185.2	184.4	184.4	184.4	183.5	182.7	180.1	177.6	174.2	168.2
55°	167.4	166.5	165.7	165.7	164.0	163.1	163.1	160.6	158.0	153.8	147.0
57.5°	150.4	149.5	148.7	148.7	147.8	146.1	146.1	143.6	140.2	135.1	129.2
60°	134.2	134.2	134.2	133.4	133.4	131.7	131.7	129.2	125.8	120.7	113.9
62.5°	119.8	119.0	119.0	119.0	119.0	118.1	117.3	115.6	112.2	107.1	101.1
65°	102.8	102.8	102.8	102.8	102.0	102.0	102.0	99.4	97.7	92.6	86.7
67.5°	84.1	84.1	84.1	84.1	83.3	84.1	84.1	82.4	80.7	75.6	70.5
70°	67.1	66.3	65.4	66.3	65.4	65.4	66.3	64.6	63.7	59.5	54.4
72.5°	49.3	50.1	49.3	49.3	49.3	48.4	49.3	48.4	46.7	43.3	39.9
75°	34.8	35.7	35.7	34.8	34.8	34.8	34.0	34.0	32.3	29.7	28.0
77.5°	23.8	23.8	23.8	23.8	22.9	22.9	22.9	22.1	21.2	19.5	17.8
80°	15.3	15.3	15.3	15.3	14.4	14.4	14.4	13.6	13.6	11.9	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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	731.6	732.4	732.4	732.4	735.0	735.8	733.3	730.7	735.8	735.0	736.7
5°	723.1	725.6	727.3	728.2	730.7	732.4	729.9	729.0	733.3	734.1	735.0
7.5°	712.9	717.1	721.4	723.1	726.5	728.2	727.3	727.3	732.4	734.1	734.1
10°	706.1	712.0	717.1	721.4	725.6	728.2	728.2	729.0	735.0	736.7	738.4
12.5°	704.4	712.0	718.8	724.8	728.2	732.4	733.3	735.8	741.8	744.3	744.3
15°	700.1	710.3	718.8	726.5	731.6	736.7	738.4	743.5	750.3	752.0	753.7
17.5°	692.5	702.7	712.9	722.2	729.0	733.3	738.4	743.5	752.0	754.5	755.4
20°	678.9	690.8	701.0	710.3	717.1	723.1	728.2	734.1	741.8	745.2	746.0
22.5°	658.5	670.4	680.6	690.8	697.6	702.7	707.8	714.6	722.2	725.6	725.6
25°	633.9	644.9	655.9	663.6	670.4	676.3	678.9	686.5	694.2	698.4	698.4
27.5°	602.4	612.6	622.8	631.3	635.6	640.7	644.9	651.7	657.6	661.0	664.4
30°	562.5	572.7	582.0	590.5	595.6	600.7	605.0	610.1	616.0	620.3	621.1
32.5°	519.1	527.6	537.0	545.5	550.6	552.3	556.5	561.6	566.7	570.1	571.0
35°	471.6	477.5	483.5	491.1	496.2	496.2	500.5	503.9	508.1	515.8	514.1
37.5°	415.5	424.0	428.2	430.8	434.2	437.6	438.4	442.7	447.8	449.5	452.0
40°	362.8	365.4	367.9	367.9	371.3	371.3	371.3	372.2	377.3	378.1	381.5
42.5°	310.1	310.1	307.6	305.0	305.9	305.0	300.8	300.8	303.3	306.7	306.7
45°	260.8	254.9	247.3	241.3	237.1	235.4	230.3	230.3	229.4	230.3	233.7
47.5°	219.2	209.0	196.3	184.4	180.1	176.7	169.1	165.7	164.0	164.8	166.5
50°	184.4	173.3	158.9	144.4	136.8	132.5	123.2	117.3	116.4	114.7	118.1
52.5°	158.9	145.3	130.0	113.0	105.4	98.6	88.4	83.3	79.9	79.9	80.7
55°	136.8	122.4	105.4	88.4	80.7	75.6	65.4	58.6	55.2	54.4	56.9
57.5°	118.1	104.5	87.5	70.5	62.9	56.9	46.7	40.8	38.2	36.5	37.4
60°	103.7	90.1	73.1	56.9	50.1	43.3	34.8	28.0	24.6	24.6	25.5
62.5°	90.1	77.3	62.0	46.7	40.8	34.8	25.5	19.5	17.0	16.1	17.0
65°	76.5	64.6	51.8	39.1	33.1	28.0	20.4	15.3	11.9	11.0	11.9
67.5°	62.0	52.7	41.6	31.4	26.3	22.1	15.3	11.0	8.5	7.6	8.5
70°	48.4	39.9	31.4	22.9	19.5	16.1	11.0	8.5	5.9	5.1	5.9
72.5°	34.8	28.9	22.1	16.1	13.6	11.0	7.6	5.9	4.2	3.4	4.2
75°	23.8	19.5	14.4	10.2	8.5	7.6	5.1	3.4	2.5	2.5	2.5
77.5°	15.3	11.9	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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	733.3	734.1	731.6	735.0	732.4	735.8	735.8	732.4	733.3	731.6	735.0
5°	731.6	731.6	729.9	732.4	729.0	732.4	731.6	725.6	727.3	723.9	727.3
7.5°	731.6	729.9	727.3	729.9	725.6	728.2	724.8	718.8	717.1	712.9	712.9
10°	734.1	731.6	728.2	729.0	724.8	725.6	720.5	712.0	709.5	704.4	702.7
12.5°	740.1	737.5	732.4	734.1	728.2	728.2	721.4	711.2	706.1	699.3	697.6
15°	748.6	744.3	738.4	739.2	733.3	729.9	721.4	709.5	702.7	693.3	690.8
17.5°	750.3	746.0	738.4	738.4	730.7	726.5	716.3	702.7	694.2	684.8	679.7
20°	740.9	736.7	728.2	727.3	720.5	714.6	703.5	689.9	681.4	671.2	667.0
22.5°	721.4	716.3	708.6	707.8	701.0	697.6	685.7	672.1	663.6	653.4	650.0
25°	692.5	689.9	682.3	681.4	675.5	671.2	661.0	648.3	640.7	630.5	627.1
27.5°	658.5	655.9	648.3	648.3	641.5	639.0	629.6	617.7	611.8	602.4	598.2
30°	617.7	614.3	610.1	609.2	603.3	600.7	592.2	581.2	575.2	567.6	565.9
32.5°	569.3	566.7	564.2	563.3	557.4	554.8	548.9	537.8	532.7	525.9	523.4
35°	513.2	511.5	509.0	508.1	505.6	503.0	497.1	488.6	486.0	480.9	478.4
37.5°	448.6	450.3	448.6	448.6	446.1	446.9	441.8	436.7	434.2	430.8	429.1
40°	379.0	382.4	384.9	384.9	384.1	387.5	386.6	382.4	381.5	379.8	379.0
42.5°	308.4	310.1	315.2	318.6	317.8	326.3	327.1	330.5	333.1	331.4	332.2
45°	234.5	239.6	246.4	249.8	254.1	265.1	271.0	277.8	283.8	287.2	286.3
47.5°	169.1	175.0	182.7	187.8	195.4	209.0	224.3	232.8	241.3	245.6	249.8
50°	122.4	128.3	137.6	145.3	150.4	169.1	185.2	196.3	205.6	211.6	215.8
52.5°	85.8	92.6	102.8	109.6	117.3	135.1	153.8	166.5	176.7	184.4	188.6
55°	59.5	67.1	76.5	83.3	91.8	110.5	128.3	141.9	152.9	159.7	164.8
57.5°	41.6	48.4	57.8	63.7	72.2	90.1	107.9	121.5	132.5	139.3	145.3
60°	28.0	34.8	44.2	50.1	56.9	74.8	90.9	105.4	115.6	122.4	128.3
62.5°	19.5	25.5	34.8	40.8	46.7	62.0	77.3	90.1	100.3	107.9	113.0
65°	15.3	20.4	28.0	33.1	39.1	51.8	64.6	75.6	85.8	93.5	96.9
67.5°	11.0	16.1	22.1	26.3	30.6	41.6	52.7	61.2	70.5	76.5	80.7
70°	7.6	11.0	16.1	19.5	22.9	31.4	39.9	47.6	54.4	58.6	62.0
72.5°	5.9	7.6	11.0	13.6	16.1	22.1	28.9	34.8	39.9	43.3	46.7
75°	3.4	5.1	7.6	9.3	11.0	15.3	19.5	23.8	27.2	29.7	31.4
77.5°	1.7	2.5	4.2	5.1	6.8	9.3	12.7	15.3	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	11.9	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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	732.4	734.1	733.3	735.0	732.4	731.6	733.3	730.7
5°	723.1	723.9	723.1	723.1	721.4	719.7	721.4	718.8
7.5°	708.6	708.6	706.1	706.1	702.7	701.0	701.0	700.1
10°	696.7	694.2	691.6	692.5	687.4	685.7	684.8	684.0
12.5°	690.8	689.1	684.8	684.8	679.7	678.0	677.2	676.3
15°	684.0	680.6	677.2	676.3	672.1	670.4	669.5	667.8
17.5°	672.1	669.5	665.3	665.3	661.0	660.2	658.5	657.6
20°	659.3	655.9	652.5	652.5	647.5	647.5	644.9	645.8
22.5°	641.5	639.0	635.6	635.6	631.3	630.5	627.9	627.1
25°	620.3	616.9	614.3	613.5	610.1	608.4	607.5	605.8
27.5°	592.2	589.7	587.1	585.4	581.2	580.3	577.8	578.6
30°	557.4	555.7	554.8	553.1	548.0	546.3	546.3	543.8
32.5°	519.1	516.6	514.9	512.4	508.1	507.3	504.7	505.6
35°	472.4	469.0	466.5	467.3	462.2	461.4	459.7	460.5
37.5°	424.0	420.6	417.2	416.3	412.1	412.1	409.5	409.5
40°	373.9	370.5	368.8	368.8	363.7	364.5	362.0	361.1
42.5°	328.8	325.4	324.6	323.7	321.2	320.3	317.8	318.6
45°	286.3	285.5	285.5	283.8	281.2	280.4	281.2	281.2
47.5°	249.0	249.8	249.0	249.0	247.3	249.0	247.3	248.1
50°	217.5	219.2	219.2	219.2	218.4	219.2	219.2	220.1
52.5°	191.2	193.7	192.9	193.7	192.9	194.6	193.7	194.6
55°	168.2	169.9	170.8	171.6	171.6	171.6	171.6	171.6
57.5°	147.0	149.5	150.4	151.2	151.2	152.9	151.2	151.2
60°	130.0	132.5	133.4	134.2	134.2	135.1	133.4	134.2
62.5°	114.7	117.3	117.3	118.1	118.1	118.1	116.4	117.3
65°	99.4	100.3	101.1	101.1	100.3	100.3	99.4	100.3
67.5°	82.4	83.3	82.4	82.4	81.6	81.6	79.9	80.7
70°	63.7	63.7	64.6	63.7	62.9	63.7	62.9	62.0
72.5°	47.6	47.6	47.6	46.7	46.7	45.9	46.7	46.7
75°	32.3	32.3	33.1	33.1	33.1	33.1	32.3	32.3
77.5°	21.2	21.2	21.2	21.2	22.1	21.2	21.2	21.2
80°	13.6	13.6	14.4	14.4	13.6	13.6	13.6	13.6
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)