

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: P252454

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B15D010 EU6B10208030 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS 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: 1245.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

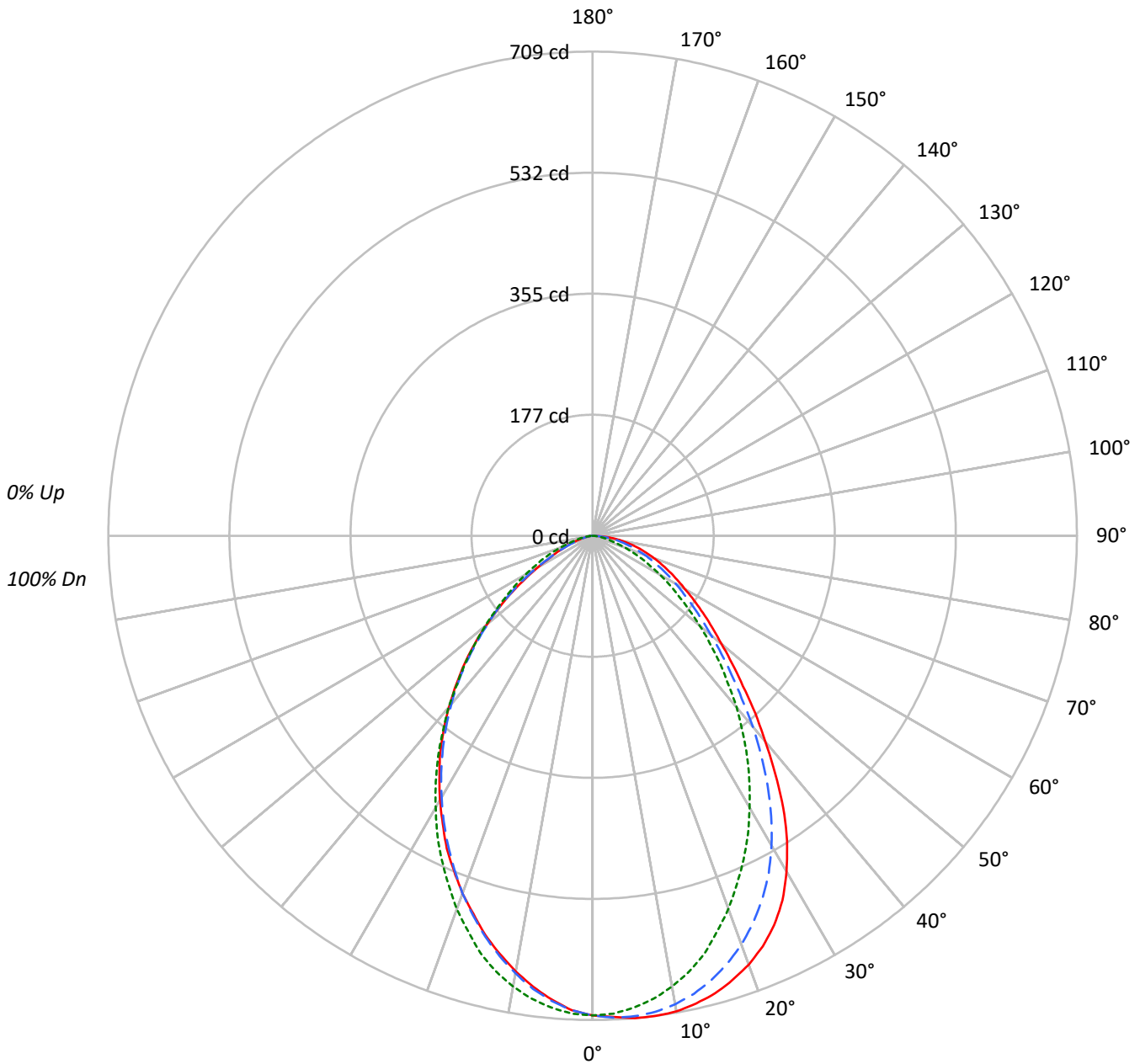
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	45825	45825	45825
5°	46445	45424	44658
10°	46850	44399	42908
15°	46847	42761	40917
20°	46392	40365	38671
25°	45293	37641	36374
30°	42767	34616	33659
35°	38771	31388	30997
40°	33479	27917	27832
45°	28713	24302	24478
50°	24948	20797	20492
55°	22419	17528	16425
60°	20368	14770	12096
65°	19127	12195	8892
70°	18236	9499	6505
75°	17468	6882	4436
80°	16493	4771	2931
85°	14597	2919	1497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	5.3
10°-20°	179.9	14.5
20°-30°	249.8	20.1
30°-40°	258.8	20.8
40°-50°	212.6	17.1
50°-60°	146.1	11.7
60°-70°	84.0	6.7
70°-80°	38.6	3.1
80°-90°	9.4	0.8
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°	495.4	39.8
0°-40°	754.2	60.6
0°-60°	1113.0	89.4
0°-90°	1245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	702	702	702	702	702	
5°	709	706	694	684	682	68
15°	694	673	633	608	606	195
25°	629	587	523	500	505	288
35°	487	447	394	382	389	302
45°	311	288	263	260	265	242
55°	197	178	154	145	144	177
65°	124	108	79	56	58	123
75°	69	55	27	18	18	73
85°	20	14	4	2	2	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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	705.3	711.1	707.2	706.3	708.2	708.2	708.2	705.3	707.2	704.3	706.3
5°	709.2	714.1	710.2	708.2	710.2	711.1	708.2	706.3	709.2	705.3	706.3
7.5°	709.2	714.1	710.2	709.2	710.2	710.2	709.2	705.3	707.2	703.3	703.3
10°	707.2	711.1	707.2	705.3	706.3	705.3	705.3	700.4	701.4	696.5	696.5
12.5°	701.4	706.3	701.4	699.4	699.4	699.4	696.5	692.6	693.6	687.7	686.8
15°	693.6	697.5	692.6	690.7	690.7	689.7	687.7	681.9	681.9	676.0	673.1
17.5°	681.9	685.8	681.9	679.0	678.0	676.0	674.1	668.2	666.3	659.4	656.5
20°	668.2	671.1	667.2	664.3	662.4	660.4	656.5	650.7	648.7	641.9	637.0
22.5°	650.7	654.6	648.7	645.8	643.8	640.9	637.0	631.2	628.2	619.4	613.6
25°	629.2	631.2	626.3	623.3	619.4	617.5	614.6	606.8	603.8	594.1	587.3
27.5°	601.9	603.8	598.0	596.0	591.2	589.2	585.3	578.5	574.6	564.8	558.0
30°	567.7	569.7	565.8	562.9	559.0	555.1	552.1	545.3	539.5	529.7	523.8
32.5°	529.7	532.6	528.7	524.8	518.0	519.0	514.1	507.3	502.4	493.6	486.8
35°	486.8	488.7	483.9	482.9	479.0	475.1	470.2	465.3	462.4	452.6	446.8
37.5°	439.0	443.9	439.0	435.1	433.1	430.2	427.3	420.4	418.5	412.6	404.8
40°	393.1	396.1	393.1	389.2	386.3	386.3	382.4	378.5	373.6	367.8	364.8
42.5°	352.2	350.2	349.2	347.3	343.4	342.4	341.4	336.5	333.6	327.8	322.9
45°	311.2	312.2	310.2	309.2	306.3	304.4	302.4	298.5	297.5	291.7	287.8
47.5°	277.0	276.1	274.1	274.1	272.2	270.2	268.3	265.3	264.4	259.5	255.6
50°	245.8	246.8	245.8	244.9	241.9	240.9	239.0	237.0	235.1	230.2	226.3
52.5°	220.5	219.5	218.5	218.5	215.6	214.6	212.7	210.7	208.8	203.9	201.0
55°	197.1	197.1	196.1	195.1	192.2	191.2	190.2	188.3	185.3	181.4	178.5
57.5°	175.6	175.6	174.6	173.6	171.7	171.7	169.7	167.8	165.8	161.9	158.0
60°	156.1	157.1	156.1	155.1	153.2	153.2	152.2	149.3	148.3	143.4	140.5
62.5°	139.5	139.5	139.5	138.5	137.5	135.6	135.6	132.7	130.7	127.8	123.9
65°	123.9	123.9	123.9	122.9	121.0	120.0	119.0	117.1	115.1	112.2	108.3
67.5°	109.3	109.3	109.3	108.3	106.3	105.4	104.4	103.4	100.5	97.6	93.6
70°	95.6	95.6	94.6	93.6	92.7	91.7	90.7	88.8	86.8	82.9	80.0
72.5°	81.9	81.9	81.9	80.0	79.0	79.0	77.1	76.1	74.1	70.2	67.3
75°	69.3	68.3	68.3	67.3	66.3	65.4	64.4	63.4	60.5	58.5	54.6
77.5°	56.6	56.6	55.6	54.6	54.6	53.7	52.7	50.7	49.8	46.8	43.9
80°	43.9	43.9	43.9	43.9	42.9	41.9	41.9	40.0	39.0	36.1	34.1
82.5°	33.2	32.2	32.2	32.2	31.2	30.2	30.2	29.3	28.3	26.3	24.4
85°	19.5	18.5	18.5	18.5	17.6	17.6	16.6	16.6	15.6	13.7	13.7
87.5°	5.9	5.9	6.8	6.8	5.9	5.9	5.9	5.9	5.9	4.9	4.9
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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	704.3	707.2	703.3	702.4	706.3	704.3	703.3	701.4	702.4	700.4	697.5
5°	703.3	707.2	702.4	699.4	704.3	701.4	699.4	697.5	697.5	693.6	691.6
7.5°	700.4	702.4	697.5	694.6	697.5	694.6	692.6	689.7	688.7	683.8	680.9
10°	692.6	694.6	688.7	684.8	687.7	683.8	680.9	678.0	676.0	670.2	666.3
12.5°	681.9	682.9	676.0	671.1	673.1	670.2	665.3	661.4	659.4	653.6	648.7
15°	667.2	668.2	660.4	653.6	655.5	651.6	645.8	641.9	639.0	633.1	626.3
17.5°	649.7	648.7	639.9	633.1	634.1	629.2	623.3	617.5	613.6	606.8	601.9
20°	630.2	627.3	617.5	609.7	610.7	604.8	598.0	592.1	587.3	581.4	574.6
22.5°	605.8	601.9	593.1	583.4	584.3	579.5	569.7	564.8	559.9	552.1	546.3
25°	579.5	573.6	564.8	555.1	555.1	549.2	541.4	535.6	530.7	522.9	516.0
27.5°	548.2	545.3	533.6	525.8	524.8	519.0	512.1	505.3	499.5	492.6	485.8
30°	514.1	509.2	500.4	491.7	489.7	484.8	478.0	470.2	466.3	459.5	453.6
32.5°	478.0	473.1	463.4	454.6	453.6	449.7	443.9	436.1	432.1	427.3	423.4
35°	437.0	435.1	425.3	418.5	418.5	414.6	408.7	401.9	399.0	394.1	389.2
37.5°	398.0	395.1	386.3	380.4	380.4	375.6	369.7	366.8	363.9	360.0	357.0
40°	357.0	355.1	348.3	342.4	343.4	339.5	335.6	331.7	329.7	327.8	324.8
42.5°	319.0	317.0	312.2	307.3	307.3	304.4	300.5	297.5	295.6	292.7	291.7
45°	284.8	281.9	278.0	273.1	273.1	270.2	268.3	266.3	265.3	263.4	260.5
47.5°	251.7	249.7	245.8	240.9	240.9	240.9	237.0	234.1	234.1	232.2	231.2
50°	223.4	220.5	217.5	213.6	213.6	211.7	208.8	205.8	205.8	204.9	202.9
52.5°	197.1	195.1	191.2	187.3	187.3	185.3	182.4	181.4	180.5	177.5	176.6
55°	174.6	172.7	169.7	164.9	163.9	162.9	160.0	158.0	157.1	154.1	154.1
57.5°	154.1	152.2	147.3	144.4	143.4	141.4	138.5	136.6	135.6	133.6	131.7
60°	136.6	133.6	129.7	125.8	124.9	122.9	120.0	118.0	117.1	113.2	111.2
62.5°	120.0	117.1	113.2	109.3	108.3	106.3	102.4	100.5	98.5	94.6	92.7
65°	104.4	101.5	97.6	93.6	91.7	90.7	86.8	83.9	81.9	79.0	75.1
67.5°	89.7	86.8	82.9	78.0	78.0	75.1	72.2	69.3	66.3	63.4	60.5
70°	76.1	73.2	69.3	65.4	64.4	62.4	59.5	55.6	53.7	49.8	46.8
72.5°	63.4	60.5	56.6	52.7	51.7	49.8	46.8	42.9	40.0	37.1	34.1
75°	51.7	48.8	44.9	41.9	41.0	39.0	36.1	32.2	29.3	27.3	24.4
77.5°	41.0	38.0	35.1	32.2	31.2	29.3	26.3	24.4	21.5	19.5	16.6
80°	31.2	29.3	26.3	24.4	23.4	21.5	19.5	16.6	14.6	12.7	11.7
82.5°	22.4	20.5	18.5	15.6	15.6	13.7	12.7	10.7	8.8	7.8	6.8
85°	12.7	10.7	9.8	8.8	7.8	7.8	6.8	5.9	4.9	3.9	3.9
87.5°	3.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0
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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	697.5	698.5	696.5	698.5	696.5	697.5	695.5	697.5	695.5	697.5	693.6
5°	690.7	690.7	687.7	689.7	687.7	688.7	684.8	685.8	683.8	685.8	681.9
7.5°	679.0	679.9	675.1	677.0	674.1	674.1	671.1	672.1	669.2	670.2	667.2
10°	665.3	664.3	659.4	661.4	657.5	657.5	654.6	654.6	650.7	651.6	647.7
12.5°	645.8	644.8	639.0	640.9	637.0	637.0	634.1	634.1	630.2	632.1	628.2
15°	623.3	622.4	616.5	617.5	613.6	613.6	609.7	610.7	607.7	609.7	605.8
17.5°	598.0	597.0	591.2	592.1	587.3	588.2	585.3	584.3	582.4	583.4	580.4
20°	571.6	569.7	563.8	564.8	562.9	559.9	558.0	559.0	557.0	559.0	556.0
22.5°	544.3	540.4	535.6	535.6	533.6	533.6	530.7	532.6	528.7	531.7	529.7
25°	513.1	510.2	506.3	508.2	504.3	504.3	501.4	502.4	500.4	502.4	500.4
27.5°	482.9	480.9	475.1	477.0	474.1	475.1	472.1	473.1	472.1	474.1	472.1
30°	450.7	449.7	445.8	445.8	444.8	443.9	442.9	442.9	441.9	444.8	442.9
32.5°	420.4	417.5	413.6	416.5	411.7	414.6	412.6	414.6	412.6	414.6	413.6
35°	389.2	388.3	383.4	384.3	383.4	383.4	382.4	382.4	382.4	385.3	385.3
37.5°	356.1	355.1	352.2	353.1	351.2	350.2	350.2	352.2	352.2	354.1	354.1
40°	323.9	324.8	321.9	321.9	320.9	320.9	320.9	322.9	321.9	323.9	322.9
42.5°	291.7	291.7	288.7	289.7	288.7	289.7	289.7	291.7	291.7	292.7	291.7
45°	261.4	261.4	260.5	261.4	259.5	260.5	259.5	261.4	260.5	261.4	261.4
47.5°	231.2	231.2	231.2	230.2	230.2	230.2	230.2	230.2	229.2	231.2	230.2
50°	202.9	203.9	202.9	202.9	201.9	202.9	201.9	201.9	200.0	201.0	201.0
52.5°	177.5	177.5	175.6	175.6	175.6	174.6	174.6	174.6	173.6	173.6	171.7
55°	153.2	153.2	151.2	151.2	150.2	149.3	148.3	148.3	145.4	145.4	142.4
57.5°	130.7	129.7	126.8	126.8	124.9	123.9	122.9	121.9	120.0	118.0	117.1
60°	110.2	108.3	106.3	105.4	103.4	101.5	99.5	97.6	95.6	94.6	93.6
62.5°	90.7	87.8	85.8	84.9	82.9	80.0	78.0	76.1	74.1	73.2	71.2
65°	73.2	70.2	67.3	66.3	64.4	62.4	59.5	57.6	55.6	54.6	54.6
67.5°	57.6	54.6	50.7	50.7	48.8	46.8	44.9	42.9	41.9	42.9	42.9
70°	42.9	41.0	38.0	37.1	35.1	33.2	32.2	32.2	32.2	33.2	32.2
72.5°	32.2	29.3	27.3	26.3	25.4	24.4	24.4	24.4	23.4	24.4	24.4
75°	22.4	20.5	18.5	18.5	17.6	17.6	17.6	17.6	17.6	17.6	17.6
77.5°	15.6	13.7	12.7	12.7	12.7	11.7	11.7	11.7	11.7	11.7	11.7
80°	9.8	9.8	8.8	8.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	693.6	696.5	692.6	695.5	694.6	693.6	691.6	695.5
5°	681.9	682.9	679.0	682.9	681.9	679.9	678.0	681.9
7.5°	665.3	668.2	663.3	667.2	666.3	664.3	662.4	666.3
10°	646.8	649.7	645.8	648.7	648.7	646.8	643.8	647.7
12.5°	626.3	628.2	624.3	628.2	627.3	625.3	624.3	627.3
15°	603.8	606.8	602.9	605.8	604.8	603.8	602.9	605.8
17.5°	579.5	582.4	579.5	582.4	582.4	579.5	578.5	580.4
20°	555.1	557.0	554.1	557.0	556.0	556.0	554.1	557.0
22.5°	527.7	530.7	528.7	530.7	529.7	529.7	528.7	530.7
25°	500.4	503.4	500.4	503.4	502.4	502.4	500.4	505.3
27.5°	473.1	475.1	472.1	476.0	475.1	473.1	474.1	475.1
30°	443.9	445.8	443.9	446.8	446.8	446.8	444.8	446.8
32.5°	414.6	417.5	414.6	417.5	416.5	416.5	415.6	417.5
35°	385.3	386.3	384.3	387.3	387.3	388.3	386.3	389.2
37.5°	355.1	356.1	355.1	356.1	358.0	355.1	357.0	358.0
40°	323.9	325.8	324.8	325.8	325.8	326.8	325.8	326.8
42.5°	292.7	294.6	292.7	295.6	294.6	294.6	295.6	295.6
45°	260.5	263.4	261.4	263.4	264.4	263.4	263.4	265.3
47.5°	230.2	232.2	231.2	232.2	232.2	232.2	232.2	234.1
50°	200.0	201.0	201.0	201.9	201.9	202.9	201.0	201.9
52.5°	169.7	171.7	171.7	171.7	170.7	171.7	171.7	171.7
55°	142.4	143.4	141.4	143.4	143.4	142.4	142.4	144.4
57.5°	116.1	116.1	116.1	116.1	116.1	115.1	116.1	116.1
60°	91.7	92.7	91.7	91.7	91.7	91.7	90.7	92.7
62.5°	71.2	71.2	70.2	71.2	71.2	71.2	72.2	72.2
65°	55.6	56.6	55.6	56.6	56.6	56.6	56.6	57.6
67.5°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
70°	33.2	33.2	33.2	34.1	33.2	33.2	33.2	34.1
72.5°	24.4	24.4	24.4	24.4	24.4	24.4	25.4	25.4
75°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
77.5°	11.7	11.7	11.7	12.7	11.7	12.7	11.7	11.7
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)