

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: P252565

Luminaire Tested: **LD6B15D010 EU6B10209035 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252565  
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 EU6B10209035 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

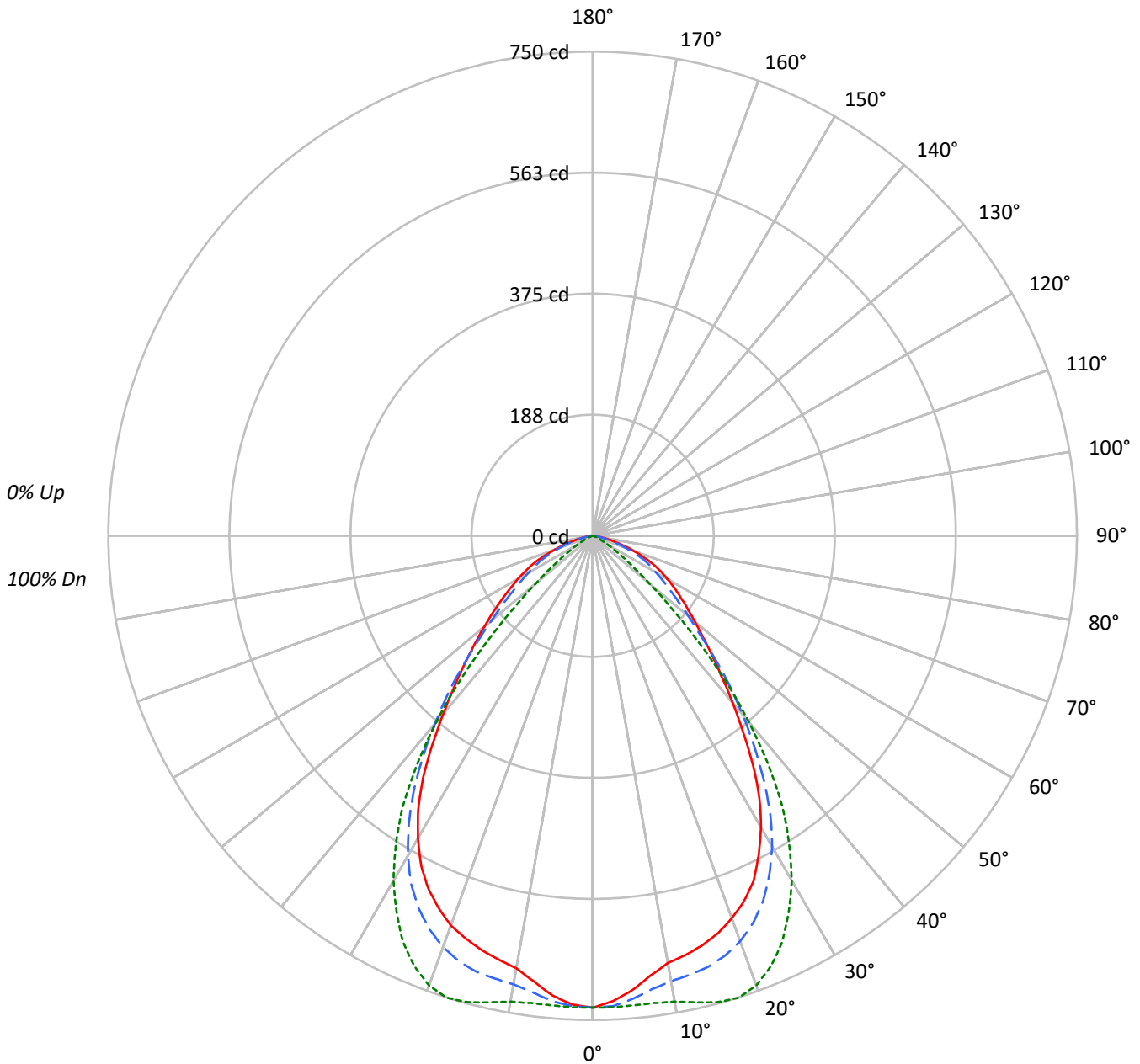
Lumens per Lamp: N/A  
Luminaire Lumens: 1266.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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	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°	47684	47684	47684
5°	46262	47814	46819
10°	44505	48533	45061
15°	44348	50508	44861
20°	43767	51453	44586
25°	42457	50001	43371
30°	39279	46466	40740
35°	34454	40849	36477
40°	28718	32022	30583
45°	24164	21128	25806
50°	20929	11581	22218
55°	18938	6154	19416
60°	17419	3197	17419
65°	15777	1698	15391
70°	12742	973	11769
75°	8722	630	8091
80°	5711	301	5072
85°	3818	599	3144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	5.4
10°-20°	197.1	15.6
20°-30°	291.2	23.0
30°-40°	294.1	23.2
40°-50°	202.7	16.0
50°-60°	116.4	9.2
60°-70°	67.8	5.4
70°-80°	24.7	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°	556.4	44.0
0°-40°	850.6	67.2
0°-60°	1169.7	92.4
0°-90°	1266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	706	720	730	723	715	66
15°	657	691	748	699	664	185
25°	590	624	695	637	602	269
35°	433	462	513	483	458	269
45°	262	265	229	282	280	204
55°	166	146	54	152	171	150
65°	102	86	11	85	100	100
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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	721.6	722.5	723.3	722.5	723.3	726.7	724.2	725.9	725.9	726.7	729.2
5°	706.4	706.4	708.1	707.3	709.8	713.2	710.6	713.2	714.0	715.7	719.9
7.5°	687.0	687.0	687.8	687.8	691.2	694.6	692.9	696.3	699.7	703.0	708.1
10°	671.8	673.5	673.5	674.3	677.7	681.9	681.1	685.3	688.7	693.7	700.5
12.5°	665.0	665.9	665.9	667.5	670.9	675.2	674.3	678.5	683.6	689.5	696.3
15°	656.6	658.3	657.4	659.1	662.5	666.7	665.9	670.1	676.0	681.9	691.2
17.5°	645.6	646.4	647.3	647.3	650.6	654.0	654.0	658.3	665.0	671.8	681.9
20°	630.4	632.1	632.1	632.9	635.4	640.5	639.7	643.9	650.6	657.4	668.4
22.5°	612.6	613.5	613.5	614.3	618.5	621.1	621.9	625.3	631.2	638.8	649.0
25°	589.8	590.7	589.8	592.3	594.0	599.1	597.4	601.6	608.4	614.3	624.5
27.5°	556.9	558.5	558.5	559.4	563.6	567.8	567.8	572.1	578.0	582.2	592.3
30°	521.4	523.9	521.4	525.6	527.3	530.7	533.2	535.7	540.8	546.7	556.0
32.5°	480.8	480.0	480.8	482.5	487.6	490.1	491.8	494.3	499.4	504.5	512.1
35°	432.6	434.3	435.2	438.6	438.6	442.8	443.6	445.3	452.9	456.3	462.2
37.5°	381.9	383.6	384.5	386.2	389.5	391.2	393.8	396.3	401.4	407.3	410.7
40°	337.2	337.2	338.0	339.7	342.2	343.1	345.6	349.0	352.4	357.4	360.8
42.5°	294.9	295.7	294.9	296.6	299.1	302.5	301.7	305.9	306.7	310.1	312.6
45°	261.9	261.9	260.3	261.9	261.9	265.3	264.5	266.2	265.3	267.0	265.3
47.5°	230.7	231.5	230.7	231.5	231.5	231.5	232.4	230.7	231.5	229.0	223.9
50°	206.2	207.0	205.3	206.2	205.3	204.5	205.3	202.8	202.0	198.6	193.5
52.5°	185.1	184.2	183.4	183.4	183.4	182.5	181.7	179.1	176.6	173.2	167.3
55°	166.5	165.6	164.8	164.8	163.1	162.2	162.2	159.7	157.2	152.9	146.2
57.5°	149.6	148.7	147.9	147.9	147.0	145.3	145.3	142.8	139.4	134.4	128.4
60°	133.5	133.5	133.5	132.7	132.7	131.0	131.0	128.4	125.1	120.0	113.2
62.5°	119.1	118.3	118.3	118.3	118.3	117.5	116.6	114.9	111.5	106.5	100.6
65°	102.2	102.2	102.2	102.2	101.4	101.4	101.4	98.9	97.2	92.1	86.2
67.5°	83.7	83.7	83.7	83.7	82.8	83.7	83.7	82.0	80.3	75.2	70.1
70°	66.8	65.9	65.1	65.9	65.1	65.1	65.9	64.2	63.4	59.1	54.1
72.5°	49.0	49.9	49.0	49.0	49.0	48.2	49.0	48.2	46.5	43.1	39.7
75°	34.6	35.5	35.5	34.6	34.6	34.6	33.8	33.8	32.1	29.6	27.9
77.5°	23.7	23.7	23.7	23.7	22.8	22.8	22.8	22.0	21.1	19.4	17.7
80°	15.2	15.2	15.2	15.2	14.4	14.4	14.4	13.5	13.5	11.8	10.1
82.5°	9.3	9.3	9.3	9.3	9.3	9.3	8.4	8.4	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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	727.5	728.4	728.4	728.4	730.9	731.8	729.2	726.7	731.8	730.9	732.6
5°	719.1	721.6	723.3	724.2	726.7	728.4	725.9	725.0	729.2	730.1	730.9
7.5°	709.0	713.2	717.4	719.1	722.5	724.2	723.3	723.3	728.4	730.1	730.1
10°	702.2	708.1	713.2	717.4	721.6	724.2	724.2	725.0	730.9	732.6	734.3
12.5°	700.5	708.1	714.9	720.8	724.2	728.4	729.2	731.8	737.7	740.2	740.2
15°	696.3	706.4	714.9	722.5	727.5	732.6	734.3	739.4	746.1	747.8	749.5
17.5°	688.7	698.8	709.0	718.2	725.0	729.2	734.3	739.4	747.8	750.4	751.2
20°	675.2	687.0	697.1	706.4	713.2	719.1	724.2	730.1	737.7	741.1	741.9
22.5°	654.9	666.7	676.8	687.0	693.7	698.8	703.9	710.6	718.2	721.6	721.6
25°	630.4	641.4	652.3	659.9	666.7	672.6	675.2	682.8	690.4	694.6	694.6
27.5°	599.1	609.2	619.4	627.8	632.1	637.1	641.4	648.1	654.0	657.4	660.8
30°	559.4	569.5	578.8	587.3	592.3	597.4	601.6	606.7	612.6	616.8	617.7
32.5°	516.3	524.7	534.0	542.5	547.6	549.2	553.5	558.5	563.6	567.0	567.8
35°	469.0	474.9	480.8	488.4	493.5	493.5	497.7	501.1	505.3	512.9	511.2
37.5°	413.2	421.7	425.9	428.4	431.8	435.2	436.0	440.2	445.3	447.0	449.5
40°	360.8	363.3	365.9	365.9	369.3	369.3	369.3	370.1	375.2	376.0	379.4
42.5°	308.4	308.4	305.9	303.4	304.2	303.4	299.1	299.1	301.7	305.0	305.0
45°	259.4	253.5	245.9	240.0	235.8	234.1	229.0	229.0	228.1	229.0	232.4
47.5°	218.0	207.9	195.2	183.4	179.1	175.8	168.2	164.8	163.1	163.9	165.6
50°	183.4	172.4	158.0	143.6	136.0	131.8	122.5	116.6	115.8	114.1	117.5
52.5°	158.0	144.5	129.3	112.4	104.8	98.0	87.9	82.8	79.4	79.4	80.3
55°	136.0	121.7	104.8	87.9	80.3	75.2	65.1	58.3	54.9	54.1	56.6
57.5°	117.5	103.9	87.0	70.1	62.5	56.6	46.5	40.6	38.0	36.3	37.2
60°	103.1	89.6	72.7	56.6	49.9	43.1	34.6	27.9	24.5	24.5	25.3
62.5°	89.6	76.9	61.7	46.5	40.6	34.6	25.3	19.4	16.9	16.1	16.9
65°	76.0	64.2	51.5	38.9	33.0	27.9	20.3	15.2	11.8	11.0	11.8
67.5°	61.7	52.4	41.4	31.3	26.2	22.0	15.2	11.0	8.4	7.6	8.4
70°	48.2	39.7	31.3	22.8	19.4	16.1	11.0	8.4	5.9	5.1	5.9
72.5°	34.6	28.7	22.0	16.1	13.5	11.0	7.6	5.9	4.2	3.4	4.2
75°	23.7	19.4	14.4	10.1	8.4	7.6	5.1	3.4	2.5	2.5	2.5
77.5°	15.2	11.8	9.3	6.8	5.1	4.2	2.5	1.7	1.7	1.7	1.7
80°	8.4	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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	729.2	730.1	727.5	730.9	728.4	731.8	731.8	728.4	729.2	727.5	730.9
5°	727.5	727.5	725.9	728.4	725.0	728.4	727.5	721.6	723.3	719.9	723.3
7.5°	727.5	725.9	723.3	725.9	721.6	724.2	720.8	714.9	713.2	709.0	709.0
10°	730.1	727.5	724.2	725.0	720.8	721.6	716.6	708.1	705.6	700.5	698.8
12.5°	736.0	733.5	728.4	730.1	724.2	724.2	717.4	707.3	702.2	695.4	693.7
15°	744.4	740.2	734.3	735.1	729.2	725.9	717.4	705.6	698.8	689.5	687.0
17.5°	746.1	741.9	734.3	734.3	726.7	722.5	712.3	698.8	690.4	681.1	676.0
20°	736.8	732.6	724.2	723.3	716.6	710.6	699.7	686.1	677.7	667.5	663.3
22.5°	717.4	712.3	704.7	703.9	697.1	693.7	681.9	668.4	659.9	649.8	646.4
25°	688.7	686.1	678.5	677.7	671.8	667.5	657.4	644.7	637.1	627.0	623.6
27.5°	654.9	652.3	644.7	644.7	638.0	635.4	626.1	614.3	608.4	599.1	594.9
30°	614.3	610.9	606.7	605.9	599.9	597.4	589.0	578.0	572.1	564.5	562.8
32.5°	566.1	563.6	561.1	560.2	554.3	551.8	545.9	534.9	529.8	523.1	520.5
35°	510.4	508.7	506.2	505.3	502.8	500.2	494.3	485.9	483.3	478.3	475.7
37.5°	446.2	447.8	446.2	446.2	443.6	444.5	439.4	434.3	431.8	428.4	426.7
40°	376.9	380.2	382.8	382.8	381.9	385.3	384.5	380.2	379.4	377.7	376.9
42.5°	306.7	308.4	313.5	316.9	316.0	324.5	325.3	328.7	331.2	329.5	330.4
45°	233.2	238.3	245.0	248.4	252.7	263.6	269.6	276.3	282.2	285.6	284.8
47.5°	168.2	174.1	181.7	186.7	194.3	207.9	223.1	231.5	240.0	244.2	248.4
50°	121.7	127.6	136.9	144.5	149.6	168.2	184.2	195.2	204.5	210.4	214.6
52.5°	85.3	92.1	102.2	109.0	116.6	134.4	152.9	165.6	175.8	183.4	187.6
55°	59.1	66.8	76.0	82.8	91.3	109.8	127.6	141.1	152.1	158.9	163.9
57.5°	41.4	48.2	57.5	63.4	71.8	89.6	107.3	120.8	131.8	138.6	144.5
60°	27.9	34.6	43.9	49.9	56.6	74.4	90.4	104.8	114.9	121.7	127.6
62.5°	19.4	25.3	34.6	40.6	46.5	61.7	76.9	89.6	99.7	107.3	112.4
65°	15.2	20.3	27.9	33.0	38.9	51.5	64.2	75.2	85.3	92.9	96.3
67.5°	11.0	16.1	22.0	26.2	30.4	41.4	52.4	60.8	70.1	76.0	80.3
70°	7.6	11.0	16.1	19.4	22.8	31.3	39.7	47.3	54.1	58.3	61.7
72.5°	5.9	7.6	11.0	13.5	16.1	22.0	28.7	34.6	39.7	43.1	46.5
75°	3.4	5.1	7.6	9.3	11.0	15.2	19.4	23.7	27.0	29.6	31.3
77.5°	1.7	2.5	4.2	5.1	6.8	9.3	12.7	15.2	17.7	19.4	21.1
80°	1.7	1.7	2.5	2.5	3.4	5.1	6.8	8.4	10.1	11.8	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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	728.4	730.1	729.2	730.9	728.4	727.5	729.2	726.7
5°	719.1	719.9	719.1	719.1	717.4	715.7	717.4	714.9
7.5°	704.7	704.7	702.2	702.2	698.8	697.1	697.1	696.3
10°	692.9	690.4	687.8	688.7	683.6	681.9	681.1	680.2
12.5°	687.0	685.3	681.1	681.1	676.0	674.3	673.5	672.6
15°	680.2	676.8	673.5	672.6	668.4	666.7	665.9	664.2
17.5°	668.4	665.9	661.6	661.6	657.4	656.6	654.9	654.0
20°	655.7	652.3	649.0	649.0	643.9	643.9	641.4	642.2
22.5°	638.0	635.4	632.1	632.1	627.8	627.0	624.5	623.6
25°	616.8	613.5	610.9	610.1	606.7	605.0	604.2	602.5
27.5°	589.0	586.4	583.9	582.2	578.0	577.1	574.6	575.4
30°	554.3	552.6	551.8	550.1	545.0	543.3	543.3	540.8
32.5°	516.3	513.8	512.1	509.5	505.3	504.5	501.9	502.8
35°	469.8	466.4	463.9	464.7	459.7	458.8	457.1	458.0
37.5°	421.7	418.3	414.9	414.0	409.8	409.8	407.3	407.3
40°	371.8	368.4	366.7	366.7	361.7	362.5	360.0	359.1
42.5°	327.0	323.6	322.8	321.9	319.4	318.6	316.0	316.9
45°	284.8	283.9	283.9	282.2	279.7	278.8	279.7	279.7
47.5°	247.6	248.4	247.6	247.6	245.9	247.6	245.9	246.7
50°	216.3	218.0	218.0	218.0	217.2	218.0	218.0	218.9
52.5°	190.1	192.7	191.8	192.7	191.8	193.5	192.7	193.5
55°	167.3	169.0	169.8	170.7	170.7	170.7	170.7	170.7
57.5°	146.2	148.7	149.6	150.4	150.4	152.1	150.4	150.4
60°	129.3	131.8	132.7	133.5	133.5	134.4	132.7	133.5
62.5°	114.1	116.6	116.6	117.5	117.5	117.5	115.8	116.6
65°	98.9	99.7	100.6	100.6	99.7	99.7	98.9	99.7
67.5°	82.0	82.8	82.0	82.0	81.1	81.1	79.4	80.3
70°	63.4	63.4	64.2	63.4	62.5	63.4	62.5	61.7
72.5°	47.3	47.3	47.3	46.5	46.5	45.6	46.5	46.5
75°	32.1	32.1	33.0	33.0	33.0	33.0	32.1	32.1
77.5°	21.1	21.1	21.1	21.1	22.0	21.1	21.1	21.1
80°	13.5	13.5	14.4	14.4	13.5	13.5	13.5	13.5
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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)