

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: PORTFOLIO

Report Number: P252544

Luminaire Tested: **LE\_6B10D010 EC6B10208027 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252544  
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: PORTFOLIO  
Catalog Number: LE\_6B10D010 EC6B10208027 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1267.5 lumens  
Efficiency: N/A  
Efficacy: 126.8 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

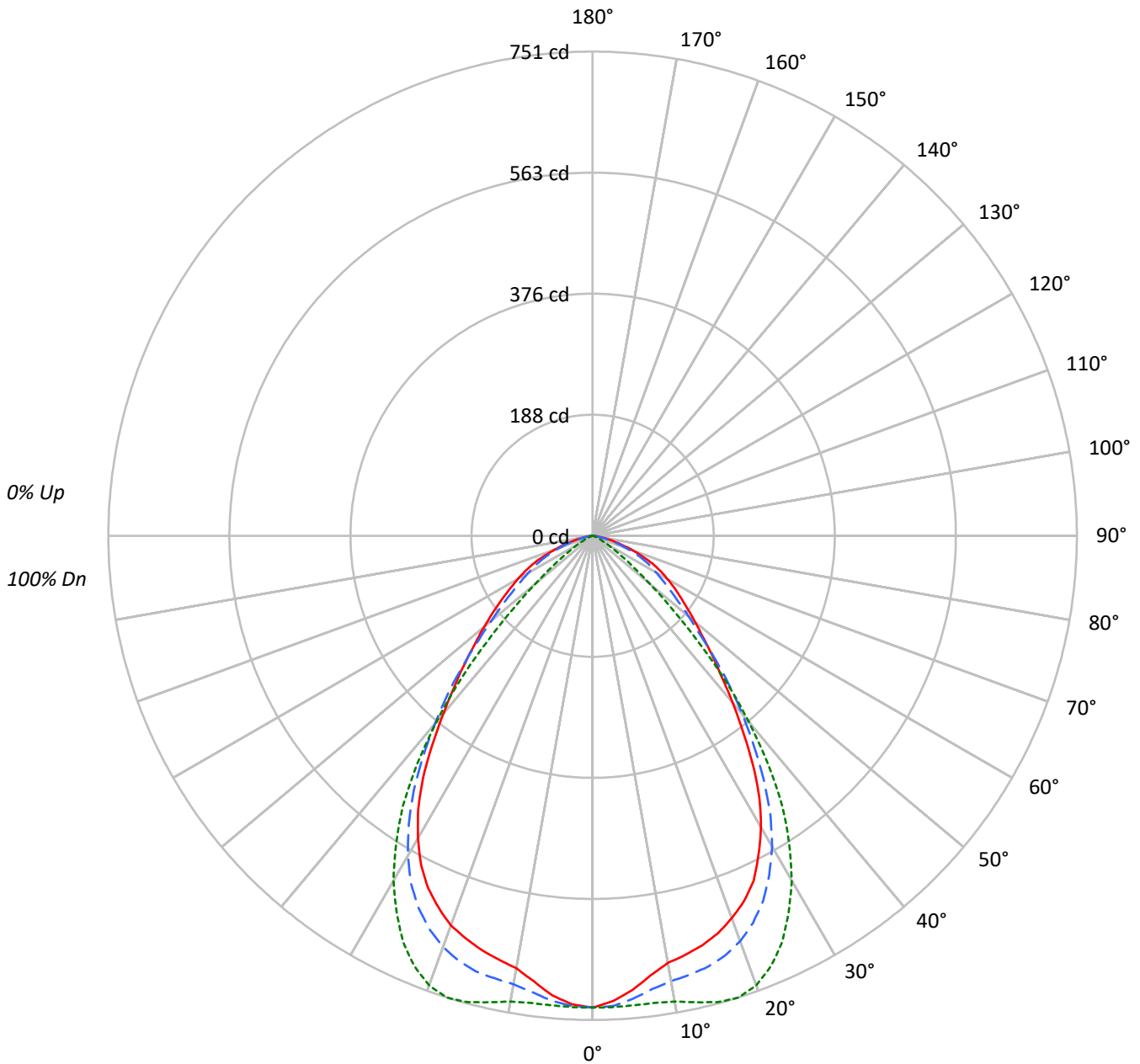
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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°	47743	47743	47743
5°	46314	47873	46878
10°	44558	48592	45114
15°	44402	50575	44915
20°	43816	51515	44642
25°	42507	50058	43421
30°	39324	46526	40793
35°	34494	40897	36517
40°	28743	32065	30617
45°	24192	21147	25834
50°	20949	11591	22238
55°	18950	6154	19439
60°	17432	3197	17432
65°	15808	1698	15422
70°	12761	973	11788
75°	8722	630	8091
80°	5711	338	5072
85°	3818	674	3144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	5.4
10°-20°	197.3	15.6
20°-30°	291.5	23.0
30°-40°	294.5	23.2
40°-50°	203.0	16.0
50°-60°	116.6	9.2
60°-70°	67.8	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°	557.1	44.0
0°-40°	851.6	67.2
0°-60°	1171.1	92.4
0°-90°	1267.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	707	721	731	724	716	66
15°	657	692	749	700	665	185
25°	590	625	695	638	603	269
35°	433	463	514	484	458	269
45°	262	266	229	283	280	204
55°	167	146	54	152	171	150
65°	102	86	11	86	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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	722.5	723.4	724.1	723.4	724.1	727.5	725.0	726.8	726.8	727.5	730.1
5°	707.2	707.2	709.0	708.1	710.6	714.0	711.5	714.0	714.9	716.6	720.8
7.5°	687.8	687.8	688.6	688.6	692.0	695.4	693.8	697.1	700.5	703.9	709.0
10°	672.6	674.2	674.2	675.1	678.5	682.8	681.9	686.1	689.5	694.6	701.4
12.5°	665.8	666.6	666.6	668.4	671.8	676.0	675.1	679.4	684.4	690.4	697.1
15°	657.4	659.0	658.2	659.9	663.2	667.5	666.6	670.9	676.8	682.8	692.0
17.5°	646.4	647.2	648.0	648.0	651.4	654.8	654.8	659.0	665.8	672.6	682.8
20°	631.1	632.8	632.8	633.6	636.2	641.2	640.4	644.6	651.4	658.2	669.1
22.5°	613.4	614.2	614.2	615.0	619.2	621.8	622.6	626.0	632.0	639.6	649.8
25°	590.5	591.4	590.5	593.0	594.8	599.9	598.1	602.4	609.1	615.0	625.2
27.5°	557.5	559.2	559.2	560.0	564.2	568.5	568.5	572.8	578.6	582.9	593.0
30°	522.0	524.5	522.0	526.2	527.9	531.2	533.9	536.4	541.5	547.4	556.6
32.5°	481.4	480.5	481.4	483.1	488.1	490.6	492.4	494.9	500.0	505.1	512.6
35°	433.1	434.9	435.8	439.1	439.1	443.2	444.1	445.9	453.5	456.9	462.8
37.5°	382.4	384.1	384.9	386.6	390.0	391.8	394.2	396.8	401.9	407.8	411.1
40°	337.5	337.5	338.4	340.1	342.6	343.5	346.0	349.4	352.8	357.9	361.2
42.5°	295.2	296.1	295.2	297.0	299.5	302.9	302.0	306.2	307.1	310.5	313.0
45°	262.2	262.2	260.6	262.2	262.2	265.6	264.8	266.5	265.6	267.4	265.6
47.5°	231.0	231.8	231.0	231.8	231.8	231.8	232.6	231.0	231.8	229.2	224.2
50°	206.4	207.2	205.6	206.4	205.6	204.8	205.6	203.0	202.2	198.8	193.8
52.5°	185.2	184.4	183.6	183.6	183.6	182.8	181.9	179.4	176.9	173.4	167.5
55°	166.6	165.9	165.0	165.0	163.2	162.4	162.4	159.9	157.4	153.1	146.4
57.5°	149.8	148.9	148.0	148.0	147.2	145.5	145.5	143.0	139.6	134.5	128.6
60°	133.6	133.6	133.6	132.9	132.9	131.1	131.1	128.6	125.2	120.1	113.4
62.5°	119.2	118.5	118.5	118.5	118.5	117.6	116.8	115.0	111.6	106.6	100.6
65°	102.4	102.4	102.4	102.4	101.5	101.5	101.5	99.0	97.2	92.2	86.2
67.5°	83.8	83.8	83.8	83.8	82.9	83.8	83.8	82.0	80.4	75.2	70.2
70°	66.9	66.0	65.1	66.0	65.1	65.1	66.0	64.2	63.5	59.2	54.1
72.5°	49.1	49.9	49.1	49.1	49.1	48.2	49.1	48.2	46.5	43.1	39.8
75°	34.6	35.5	35.5	34.6	34.6	34.6	33.9	33.9	32.1	29.6	27.9
77.5°	23.8	23.8	23.8	23.8	22.9	22.9	22.9	22.0	21.1	19.5	17.8
80°	15.2	15.2	15.2	15.2	14.4	14.4	14.4	13.5	13.5	11.9	10.1
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	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°	1.8	1.8	2.5	2.5	2.5	2.5	2.5	2.5	1.8	1.8	1.8
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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	728.4	729.2	729.2	729.2	731.8	732.6	730.1	727.5	732.6	731.8	733.5
5°	720.0	722.5	724.1	725.0	727.5	729.2	726.8	725.9	730.1	731.0	731.8
7.5°	709.8	714.0	718.2	720.0	723.4	725.0	724.1	724.1	729.2	731.0	731.0
10°	703.0	709.0	714.0	718.2	722.5	725.0	725.0	725.9	731.8	733.5	735.1
12.5°	701.4	709.0	715.8	721.6	725.0	729.2	730.1	732.6	738.5	741.1	741.1
15°	697.1	707.2	715.8	723.4	728.4	733.5	735.1	740.2	747.0	748.8	750.4
17.5°	689.5	699.6	709.8	719.1	725.9	730.1	735.1	740.2	748.8	751.2	752.1
20°	676.0	687.8	698.0	707.2	714.0	720.0	725.0	731.0	738.5	742.0	742.8
22.5°	655.6	667.5	677.6	687.8	694.6	699.6	704.8	711.5	719.1	722.5	722.5
25°	631.1	642.1	653.1	660.8	667.5	673.4	676.0	683.6	691.1	695.4	695.4
27.5°	599.9	610.0	620.1	628.6	632.8	637.9	642.1	648.9	654.8	658.2	661.6
30°	560.0	570.2	579.5	588.0	593.0	598.1	602.4	607.4	613.4	617.6	618.4
32.5°	516.9	525.4	534.6	543.1	548.2	549.9	554.1	559.2	564.2	567.6	568.5
35°	469.5	475.5	481.4	489.0	494.1	494.1	498.2	501.6	505.9	513.5	511.9
37.5°	413.8	422.1	426.4	428.9	432.2	435.8	436.5	440.8	445.9	447.5	450.1
40°	361.2	363.8	366.4	366.4	369.8	369.8	369.8	370.5	375.6	376.5	379.9
42.5°	308.8	308.8	306.2	303.8	304.5	303.8	299.5	299.5	302.0	305.4	305.4
45°	259.8	253.8	246.1	240.2	236.0	234.4	229.2	229.2	228.4	229.2	232.6
47.5°	218.2	208.1	195.4	183.6	179.4	176.0	168.4	165.0	163.2	164.1	165.9
50°	183.6	172.6	158.2	143.9	136.2	132.0	122.6	116.8	115.9	114.2	117.6
52.5°	158.2	144.6	129.5	112.5	104.9	98.1	88.0	82.9	79.5	79.5	80.4
55°	136.2	121.9	104.9	88.0	80.4	75.2	65.1	58.4	55.0	54.1	56.6
57.5°	117.6	104.0	87.1	70.2	62.6	56.6	46.5	40.6	38.1	36.4	37.2
60°	103.2	89.6	72.8	56.6	49.9	43.1	34.6	27.9	24.5	24.5	25.4
62.5°	89.6	77.0	61.8	46.5	40.6	34.6	25.4	19.5	16.9	16.1	16.9
65°	76.1	64.2	51.6	38.9	33.0	27.9	20.2	15.2	11.9	11.0	11.9
67.5°	61.8	52.5	41.5	31.2	26.2	22.0	15.2	11.0	8.5	7.6	8.5
70°	48.2	39.8	31.2	22.9	19.5	16.1	11.0	8.5	5.9	5.1	5.9
72.5°	34.6	28.8	22.0	16.1	13.5	11.0	7.6	5.9	4.2	3.4	4.2
75°	23.8	19.5	14.4	10.1	8.5	7.6	5.1	3.4	2.5	2.5	2.5
77.5°	15.2	11.9	9.2	6.8	5.1	4.2	2.5	1.8	1.8	1.8	1.8
80°	8.5	6.8	5.1	3.4	2.5	2.5	1.8	1.8	0.9	0.9	0.9
82.5°	5.1	3.4	2.5	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.5	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	730.1	731.0	728.4	731.8	729.2	732.6	732.6	729.2	730.1	728.4	731.8
5°	728.4	728.4	726.8	729.2	725.9	729.2	728.4	722.5	724.1	720.8	724.1
7.5°	728.4	726.8	724.1	726.8	722.5	725.0	721.6	715.8	714.0	709.8	709.8
10°	731.0	728.4	725.0	725.9	721.6	722.5	717.4	709.0	706.4	701.4	699.6
12.5°	736.9	734.4	729.2	731.0	725.0	725.0	718.2	708.1	703.0	696.2	694.6
15°	745.4	741.1	735.1	736.0	730.1	726.8	718.2	706.4	699.6	690.4	687.8
17.5°	747.0	742.8	735.1	735.1	727.5	723.4	713.1	699.6	691.1	681.9	676.8
20°	737.8	733.5	725.0	724.1	717.4	711.5	700.5	687.0	678.5	668.4	664.1
22.5°	718.2	713.1	705.6	704.8	698.0	694.6	682.8	669.1	660.8	650.6	647.2
25°	689.5	687.0	679.4	678.5	672.6	668.4	658.2	645.5	637.9	627.8	624.4
27.5°	655.6	653.1	645.5	645.5	638.8	636.2	626.9	615.0	609.1	599.9	595.6
30°	615.0	611.6	607.4	606.6	600.6	598.1	589.6	578.6	572.8	565.1	563.4
32.5°	566.9	564.2	561.8	560.9	555.0	552.5	546.5	535.5	530.5	523.6	521.1
35°	511.0	509.2	506.8	505.9	503.4	500.9	494.9	486.5	483.9	478.9	476.2
37.5°	446.8	448.4	446.8	446.8	444.1	445.0	439.9	434.9	432.2	428.9	427.2
40°	377.4	380.8	383.2	383.2	382.4	385.8	384.9	380.8	379.9	378.1	377.4
42.5°	307.1	308.8	313.9	317.2	316.4	324.9	325.8	329.1	331.6	330.0	330.8
45°	233.5	238.6	245.4	248.8	253.0	264.0	269.9	276.6	282.6	286.0	285.1
47.5°	168.4	174.2	181.9	187.0	194.6	208.1	223.4	231.8	240.2	244.5	248.8
50°	121.9	127.8	137.0	144.6	149.8	168.4	184.4	195.4	204.8	210.6	214.9
52.5°	85.5	92.2	102.4	109.1	116.8	134.5	153.1	165.9	176.0	183.6	187.8
55°	59.2	66.9	76.1	82.9	91.4	110.0	127.8	141.2	152.2	159.0	164.1
57.5°	41.5	48.2	57.5	63.5	71.9	89.6	107.5	121.0	132.0	138.8	144.6
60°	27.9	34.6	44.0	49.9	56.6	74.5	90.5	104.9	115.0	121.9	127.8
62.5°	19.5	25.4	34.6	40.6	46.5	61.8	77.0	89.6	99.9	107.5	112.5
65°	15.2	20.2	27.9	33.0	38.9	51.6	64.2	75.2	85.5	93.0	96.5
67.5°	11.0	16.1	22.0	26.2	30.5	41.5	52.5	60.9	70.2	76.1	80.4
70°	7.6	11.0	16.1	19.5	22.9	31.2	39.8	47.4	54.1	58.4	61.8
72.5°	5.9	7.6	11.0	13.5	16.1	22.0	28.8	34.6	39.8	43.1	46.5
75°	3.4	5.1	7.6	9.2	11.0	15.2	19.5	23.8	27.1	29.6	31.2
77.5°	1.8	2.5	4.2	5.1	6.8	9.2	12.8	15.2	17.8	19.5	21.1
80°	1.8	1.8	2.5	2.5	3.4	5.1	6.8	8.5	10.1	11.9	12.8
82.5°	0.9	0.9	1.8	1.8	1.8	2.5	3.4	5.1	5.9	6.8	7.6
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.5	3.4	4.2	4.2
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	729.2	731.0	730.1	731.8	729.2	728.4	730.1	727.5
5°	720.0	720.8	720.0	720.0	718.2	716.6	718.2	715.8
7.5°	705.6	705.6	703.0	703.0	699.6	698.0	698.0	697.1
10°	693.8	691.1	688.6	689.5	684.4	682.8	681.9	681.0
12.5°	687.8	686.1	681.9	681.9	676.8	675.1	674.2	673.4
15°	681.0	677.6	674.2	673.4	669.1	667.5	666.6	665.0
17.5°	669.1	666.6	662.4	662.4	658.2	657.4	655.6	654.8
20°	656.5	653.1	649.8	649.8	644.6	644.6	642.1	643.0
22.5°	638.8	636.2	632.8	632.8	628.6	627.8	625.2	624.4
25°	617.6	614.2	611.6	610.9	607.4	605.8	604.9	603.2
27.5°	589.6	587.1	584.6	582.9	578.6	577.9	575.2	576.1
30°	555.0	553.2	552.5	550.8	545.6	544.0	544.0	541.5
32.5°	516.9	514.4	512.6	510.1	505.9	505.1	502.5	503.4
35°	470.4	467.0	464.5	465.2	460.2	459.4	457.6	458.5
37.5°	422.1	418.8	415.4	414.5	410.2	410.2	407.8	407.8
40°	372.2	368.9	367.1	367.1	362.1	362.9	360.4	359.5
42.5°	327.4	324.0	323.1	322.4	319.8	319.0	316.4	317.2
45°	285.1	284.2	284.2	282.6	280.0	279.1	280.0	280.0
47.5°	247.9	248.8	247.9	247.9	246.1	247.9	246.1	247.0
50°	216.6	218.2	218.2	218.2	217.4	218.2	218.2	219.1
52.5°	190.4	192.9	192.0	192.9	192.0	193.8	192.9	193.8
55°	167.5	169.2	170.0	170.9	170.9	170.9	170.9	170.9
57.5°	146.4	148.9	149.8	150.6	150.6	152.2	150.6	150.6
60°	129.5	132.0	132.9	133.6	133.6	134.5	132.9	133.6
62.5°	114.2	116.8	116.8	117.6	117.6	117.6	115.9	116.8
65°	99.0	99.9	100.6	100.6	99.9	99.9	99.0	99.9
67.5°	82.0	82.9	82.0	82.0	81.2	81.2	79.5	80.4
70°	63.5	63.5	64.2	63.5	62.6	63.5	62.6	61.8
72.5°	47.4	47.4	47.4	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°	8.5	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	1.8	1.8
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)