

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: P252547

Luminaire Tested: **LE\_6B10D010 EC6B10208040 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252547  
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 EC6B10208040 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1372.5 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

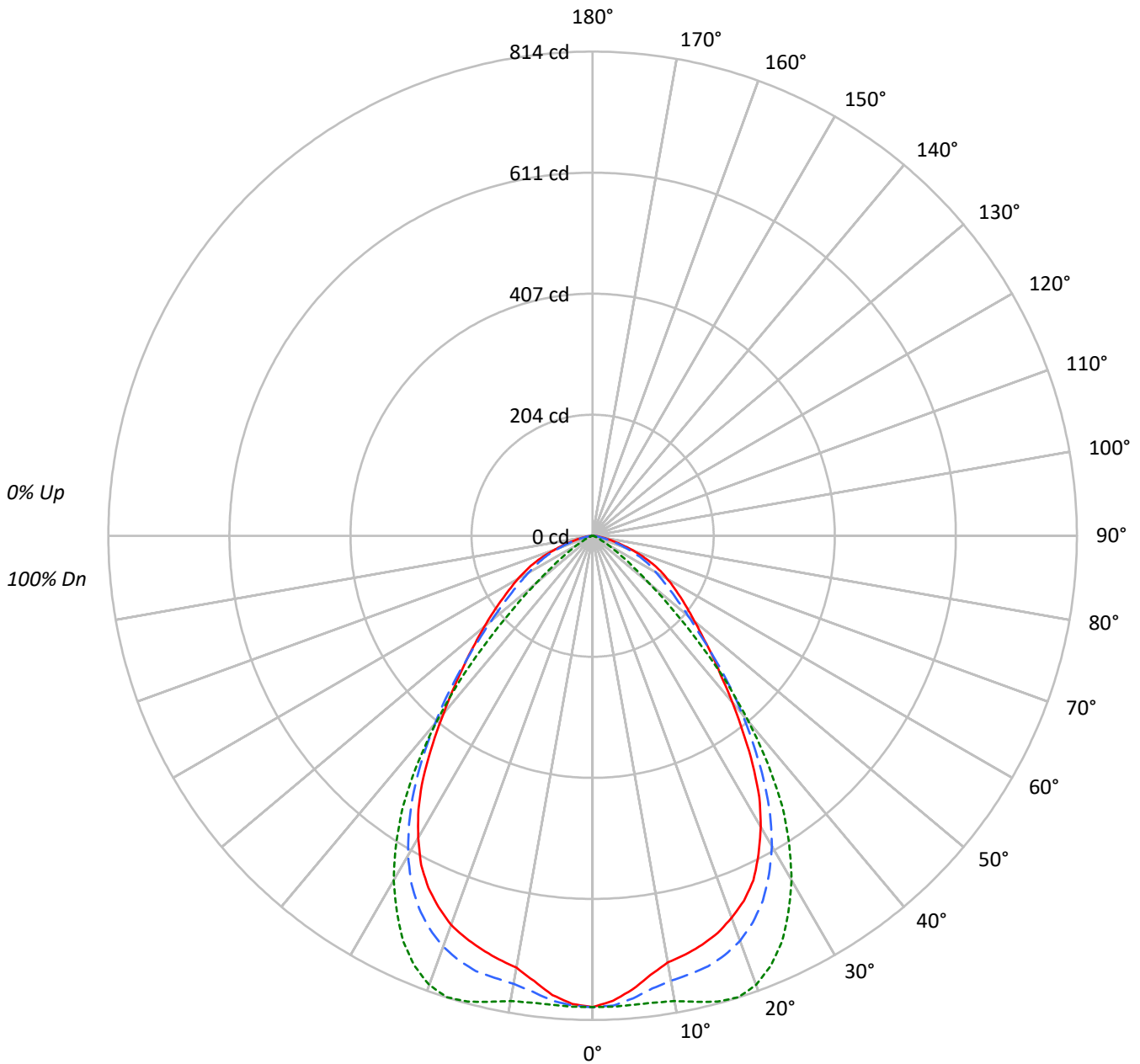
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	51697	51697	51697
5°	50159	51835	50755
10°	48241	52613	48857
15°	48076	54763	48630
20°	47447	55778	48336
25°	46027	54205	47013
30°	42578	50383	44160
35°	37353	44290	39543
40°	31128	34713	33163
45°	26203	22900	27974
50°	22684	12545	24075
55°	20531	6665	21043
60°	18894	3471	18894
65°	17120	1837	16688
70°	13810	1049	12761
75°	9453	706	8772
80°	6199	338	5485
85°	4117	674	3443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	5.4
10°-20°	213.7	15.6
20°-30°	315.7	23.0
30°-40°	318.9	23.2
40°-50°	219.8	16.0
50°-60°	126.2	9.2
60°-70°	73.5	5.4
70°-80°	26.8	2.0
80°-90°	4.1	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°	603.2	44.0
0°-40°	922.1	67.2
0°-60°	1268.1	92.4
0°-90°	1372.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	792	792	792	792	792	
5°	766	780	792	784	775	72
15°	712	749	811	758	720	201
25°	639	677	753	691	653	291
35°	469	501	556	524	496	291
45°	284	288	248	306	303	221
55°	180	158	59	165	185	162
65°	111	94	12	92	108	109
75°	38	30	3	29	35	42
85°	6	3	1	4	5	7
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°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	782.4	783.2	784.1	783.2	784.1	787.9	785.1	786.9	786.9	787.9	790.6
5°	765.9	765.9	767.6	766.8	769.5	773.1	770.4	773.1	774.1	775.9	780.5
7.5°	744.8	744.8	745.8	745.8	749.4	753.0	751.2	754.9	758.5	762.1	767.6
10°	728.2	730.1	730.1	731.0	734.8	739.2	738.4	743.0	746.6	752.1	759.4
12.5°	721.0	721.9	721.9	723.8	727.4	732.0	731.0	735.6	741.1	747.5	754.9
15°	711.8	713.6	712.8	714.5	718.2	722.8	721.9	726.5	732.9	739.2	749.4
17.5°	699.9	700.8	701.8	701.8	705.4	709.0	709.0	713.6	721.0	728.2	739.2
20°	683.4	685.2	685.2	686.1	688.9	694.4	693.5	698.0	705.4	712.8	724.6
22.5°	664.1	665.1	665.1	666.0	670.6	673.4	674.2	677.9	684.4	692.5	703.5
25°	639.4	640.4	639.4	642.1	644.0	649.5	647.6	652.2	659.6	666.0	677.0
27.5°	603.8	605.5	605.5	606.5	611.0	615.6	615.6	620.2	626.6	631.1	642.1
30°	565.2	568.0	565.2	569.8	571.6	575.2	578.0	580.8	586.2	592.8	602.8
32.5°	521.2	520.4	521.2	523.1	528.6	531.4	533.1	535.9	541.4	546.9	555.1
35°	469.0	470.9	471.8	475.5	475.5	480.0	481.0	482.8	491.0	494.6	501.1
37.5°	414.1	415.9	416.9	418.6	422.4	424.1	426.9	429.6	435.1	441.5	445.2
40°	365.5	365.5	366.4	368.2	371.0	371.9	374.6	378.4	382.0	387.5	391.1
42.5°	319.8	320.6	319.8	321.5	324.2	328.0	327.0	331.6	332.5	336.2	339.0
45°	284.0	284.0	282.1	284.0	284.0	287.6	286.8	288.6	287.6	289.5	287.6
47.5°	250.1	251.0	250.1	251.0	251.0	251.0	251.9	250.1	251.0	248.2	242.8
50°	223.5	224.5	222.6	223.5	222.6	221.8	222.6	219.9	219.0	215.2	209.8
52.5°	200.6	199.8	198.8	198.8	198.8	197.9	197.0	194.2	191.5	187.8	181.4
55°	180.5	179.5	178.6	178.6	176.8	175.9	175.9	173.1	170.4	165.8	158.5
57.5°	162.1	161.2	160.4	160.4	159.4	157.6	157.6	154.9	151.1	145.6	139.2
60°	144.8	144.8	144.8	143.9	143.9	142.0	142.0	139.2	135.6	130.1	122.8
62.5°	129.1	128.2	128.2	128.2	128.2	127.4	126.4	124.6	120.9	115.4	109.0
65°	110.9	110.9	110.9	110.9	109.9	109.9	109.9	107.1	105.4	99.9	93.5
67.5°	90.8	90.8	90.8	90.8	89.8	90.8	90.8	88.9	87.0	81.5	76.0
70°	72.4	71.5	70.5	71.5	70.5	70.5	71.5	69.6	68.8	64.1	58.6
72.5°	53.1	54.0	53.1	53.1	53.1	52.2	53.1	52.2	50.4	46.8	43.0
75°	37.5	38.5	38.5	37.5	37.5	37.5	36.6	36.6	34.8	32.1	30.2
77.5°	25.6	25.6	25.6	25.6	24.8	24.8	24.8	23.9	22.9	21.1	19.2
80°	16.5	16.5	16.5	16.5	15.6	15.6	15.6	14.6	14.6	12.9	11.0
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	9.1	9.1	8.2	7.4	6.4
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6	3.6	2.8
87.5°	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9
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°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	788.8	789.6	789.6	789.6	792.4	793.4	790.6	787.9	793.4	792.4	794.2
5°	779.6	782.4	784.1	785.1	787.9	789.6	786.9	786.0	790.6	791.5	792.4
7.5°	768.6	773.1	777.8	779.6	783.2	785.1	784.1	784.1	789.6	791.5	791.5
10°	761.2	767.6	773.1	777.8	782.4	785.1	785.1	786.0	792.4	794.2	796.1
12.5°	759.4	767.6	775.0	781.4	785.1	789.6	790.6	793.4	799.8	802.5	802.5
15°	754.9	765.9	775.0	783.2	788.8	794.2	796.1	801.6	808.9	810.8	812.6
17.5°	746.6	757.6	768.6	778.6	786.0	790.6	796.1	801.6	810.8	813.5	814.4
20°	732.0	744.8	755.8	765.9	773.1	779.6	785.1	791.5	799.8	803.4	804.4
22.5°	710.0	722.8	733.8	744.8	752.1	757.6	763.1	770.4	778.6	782.4	782.4
25°	683.4	695.2	707.2	715.5	722.8	729.2	732.0	740.2	748.5	753.0	753.0
27.5°	649.5	660.5	671.5	680.6	685.2	690.8	695.2	702.6	709.0	712.8	716.4
30°	606.5	617.5	627.5	636.6	642.1	647.6	652.2	657.8	664.1	668.8	669.6
32.5°	559.8	568.9	579.0	588.1	593.6	595.5	600.0	605.5	611.0	614.8	615.6
35°	508.4	514.9	521.2	529.5	535.0	535.0	539.6	543.2	547.9	556.1	554.2
37.5°	448.0	457.1	461.8	464.5	468.1	471.8	472.8	477.2	482.8	484.6	487.4
40°	391.1	393.9	396.6	396.6	400.4	400.4	400.4	401.2	406.8	407.6	411.4
42.5°	334.4	334.4	331.6	328.9	329.8	328.9	324.2	324.2	327.0	330.8	330.8
45°	281.2	274.9	266.6	260.1	255.6	253.8	248.2	248.2	247.4	248.2	251.9
47.5°	236.4	225.4	211.6	198.8	194.2	190.5	182.2	178.6	176.8	177.8	179.5
50°	198.8	186.9	171.2	155.8	147.5	142.9	132.9	126.4	125.5	123.6	127.4
52.5°	171.2	156.6	140.1	121.9	113.6	106.2	95.2	89.8	86.1	86.1	87.0
55°	147.5	131.9	113.6	95.2	87.0	81.5	70.5	63.2	59.5	58.6	61.4
57.5°	127.4	112.6	94.4	76.0	67.8	61.4	50.4	44.0	41.2	39.4	40.2
60°	111.8	97.1	78.8	61.4	54.0	46.8	37.5	30.2	26.6	26.6	27.5
62.5°	97.1	83.4	66.9	50.4	44.0	37.5	27.5	21.1	18.4	17.4	18.4
65°	82.5	69.6	55.9	42.1	35.8	30.2	22.0	16.5	12.9	11.9	12.9
67.5°	66.9	56.8	44.9	33.9	28.4	23.9	16.5	11.9	9.1	8.2	9.1
70°	52.2	43.0	33.9	24.8	21.1	17.4	11.9	9.1	6.4	5.5	6.4
72.5°	37.5	31.1	23.9	17.4	14.6	11.9	8.2	6.4	4.6	3.6	4.6
75°	25.6	21.1	15.6	11.0	9.1	8.2	5.5	3.6	2.8	2.8	2.8
77.5°	16.5	12.9	10.1	7.4	5.5	4.6	2.8	1.9	1.9	1.9	1.9
80°	9.1	7.4	5.5	3.6	2.8	2.8	1.9	1.9	0.9	0.9	0.9
82.5°	5.5	3.6	2.8	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.8	1.9	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°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	790.6	791.5	788.8	792.4	789.6	793.4	793.4	789.6	790.6	788.8	792.4
5°	788.8	788.8	786.9	789.6	786.0	789.6	788.8	782.4	784.1	780.5	784.1
7.5°	788.8	786.9	784.1	786.9	782.4	785.1	781.4	775.0	773.1	768.6	768.6
10°	791.5	788.8	785.1	786.0	781.4	782.4	776.9	767.6	764.9	759.4	757.6
12.5°	797.9	795.1	789.6	791.5	785.1	785.1	777.8	766.8	761.2	753.9	752.1
15°	807.1	802.5	796.1	797.0	790.6	786.9	777.8	764.9	757.6	747.5	744.8
17.5°	808.9	804.4	796.1	796.1	787.9	783.2	772.2	757.6	748.5	738.4	732.9
20°	798.9	794.2	785.1	784.1	776.9	770.4	758.5	743.9	734.8	723.8	719.1
22.5°	777.8	772.2	764.0	763.1	755.8	752.1	739.2	724.6	715.5	704.5	700.8
25°	746.6	743.9	735.6	734.8	728.2	723.8	712.8	699.0	690.8	679.8	676.1
27.5°	710.0	707.2	699.0	699.0	691.6	688.9	678.9	666.0	659.6	649.5	644.9
30°	666.0	662.4	657.8	656.9	650.4	647.6	638.5	626.6	620.2	612.0	610.1
32.5°	613.8	611.0	608.2	607.4	601.0	598.2	591.8	579.9	574.4	567.0	564.2
35°	553.4	551.5	548.8	547.9	545.1	542.4	535.9	526.8	524.0	518.5	515.8
37.5°	483.8	485.5	483.8	483.8	481.0	481.9	476.4	470.9	468.1	464.5	462.6
40°	408.6	412.2	415.0	415.0	414.1	417.8	416.9	412.2	411.4	409.5	408.6
42.5°	332.5	334.4	339.9	343.5	342.6	351.8	352.8	356.4	359.1	357.2	358.2
45°	252.9	258.4	265.6	269.4	273.9	285.9	292.2	299.5	306.0	309.6	308.8
47.5°	182.2	188.8	197.0	202.5	210.8	225.4	241.9	251.0	260.1	264.8	269.4
50°	131.9	138.4	148.4	156.6	162.1	182.2	199.8	211.6	221.8	228.1	232.6
52.5°	92.5	99.9	110.9	118.1	126.4	145.6	165.8	179.5	190.5	198.8	203.4
55°	64.1	72.4	82.5	89.8	98.9	119.1	138.4	153.0	164.9	172.2	177.8
57.5°	44.9	52.2	62.2	68.8	77.9	97.1	116.4	131.0	142.9	150.2	156.6
60°	30.2	37.5	47.6	54.0	61.4	80.6	98.0	113.6	124.6	131.9	138.4
62.5°	21.1	27.5	37.5	44.0	50.4	66.9	83.4	97.1	108.1	116.4	121.9
65°	16.5	22.0	30.2	35.8	42.1	55.9	69.6	81.5	92.5	100.8	104.4
67.5°	11.9	17.4	23.9	28.4	33.0	44.9	56.8	66.0	76.0	82.5	87.0
70°	8.2	11.9	17.4	21.1	24.8	33.9	43.0	51.2	58.6	63.2	66.9
72.5°	6.4	8.2	11.9	14.6	17.4	23.9	31.1	37.5	43.0	46.8	50.4
75°	3.6	5.5	8.2	10.1	11.9	16.5	21.1	25.6	29.4	32.1	33.9
77.5°	1.9	2.8	4.6	5.5	7.4	10.1	13.8	16.5	19.2	21.1	22.9
80°	1.9	1.9	2.8	2.8	3.6	5.5	7.4	9.1	11.0	12.9	13.8
82.5°	0.9	0.9	1.9	1.9	1.9	2.8	3.6	5.5	6.4	7.4	8.2
85°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	3.6	4.6	4.6
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8
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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	789.6	791.5	790.6	792.4	789.6	788.8	790.6	787.9
5°	779.6	780.5	779.6	779.6	777.8	775.9	777.8	775.0
7.5°	764.0	764.0	761.2	761.2	757.6	755.8	755.8	754.9
10°	751.2	748.5	745.8	746.6	741.1	739.2	738.4	737.5
12.5°	744.8	743.0	738.4	738.4	732.9	731.0	730.1	729.2
15°	737.5	733.8	730.1	729.2	724.6	722.8	721.9	720.0
17.5°	724.6	721.9	717.2	717.2	712.8	711.8	710.0	709.0
20°	710.9	707.2	703.5	703.5	698.0	698.0	695.2	696.2
22.5°	691.6	688.9	685.2	685.2	680.6	679.8	677.0	676.1
25°	668.8	665.1	662.4	661.4	657.8	655.9	655.0	653.1
27.5°	638.5	635.8	633.0	631.1	626.6	625.6	622.9	623.9
30°	601.0	599.1	598.2	596.4	590.9	589.0	589.0	586.2
32.5°	559.8	557.0	555.1	552.4	547.9	546.9	544.1	545.1
35°	509.4	505.6	502.9	503.9	498.4	497.4	495.6	496.5
37.5°	457.1	453.5	449.8	448.9	444.2	444.2	441.5	441.5
40°	403.1	399.4	397.6	397.6	392.1	393.0	390.2	389.4
42.5°	354.5	350.9	350.0	349.0	346.2	345.4	342.6	343.5
45°	308.8	307.8	307.8	306.0	303.2	302.2	303.2	303.2
47.5°	268.4	269.4	268.4	268.4	266.6	268.4	266.6	267.5
50°	234.5	236.4	236.4	236.4	235.4	236.4	236.4	237.2
52.5°	206.1	208.9	208.0	208.9	208.0	209.8	208.9	209.8
55°	181.4	183.2	184.1	185.0	185.0	185.0	185.0	185.0
57.5°	158.5	161.2	162.1	163.1	163.1	164.9	163.1	163.1
60°	140.1	142.9	143.9	144.8	144.8	145.6	143.9	144.8
62.5°	123.6	126.4	126.4	127.4	127.4	127.4	125.5	126.4
65°	107.1	108.1	109.0	109.0	108.1	108.1	107.1	108.1
67.5°	88.9	89.8	88.9	88.9	88.0	88.0	86.1	87.0
70°	68.8	68.8	69.6	68.8	67.8	68.8	67.8	66.9
72.5°	51.2	51.2	51.2	50.4	50.4	49.5	50.4	50.4
75°	34.8	34.8	35.8	35.8	35.8	35.8	34.8	34.8
77.5°	22.9	22.9	22.9	22.9	23.9	22.9	22.9	22.9
80°	14.6	14.6	15.6	15.6	14.6	14.6	14.6	14.6
82.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
85°	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9
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)