

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: P252569

Luminaire Tested: **LE\_6B15D010 EC6B10209730 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252569  
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\_6B15D010 EC6B10209730 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1363.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

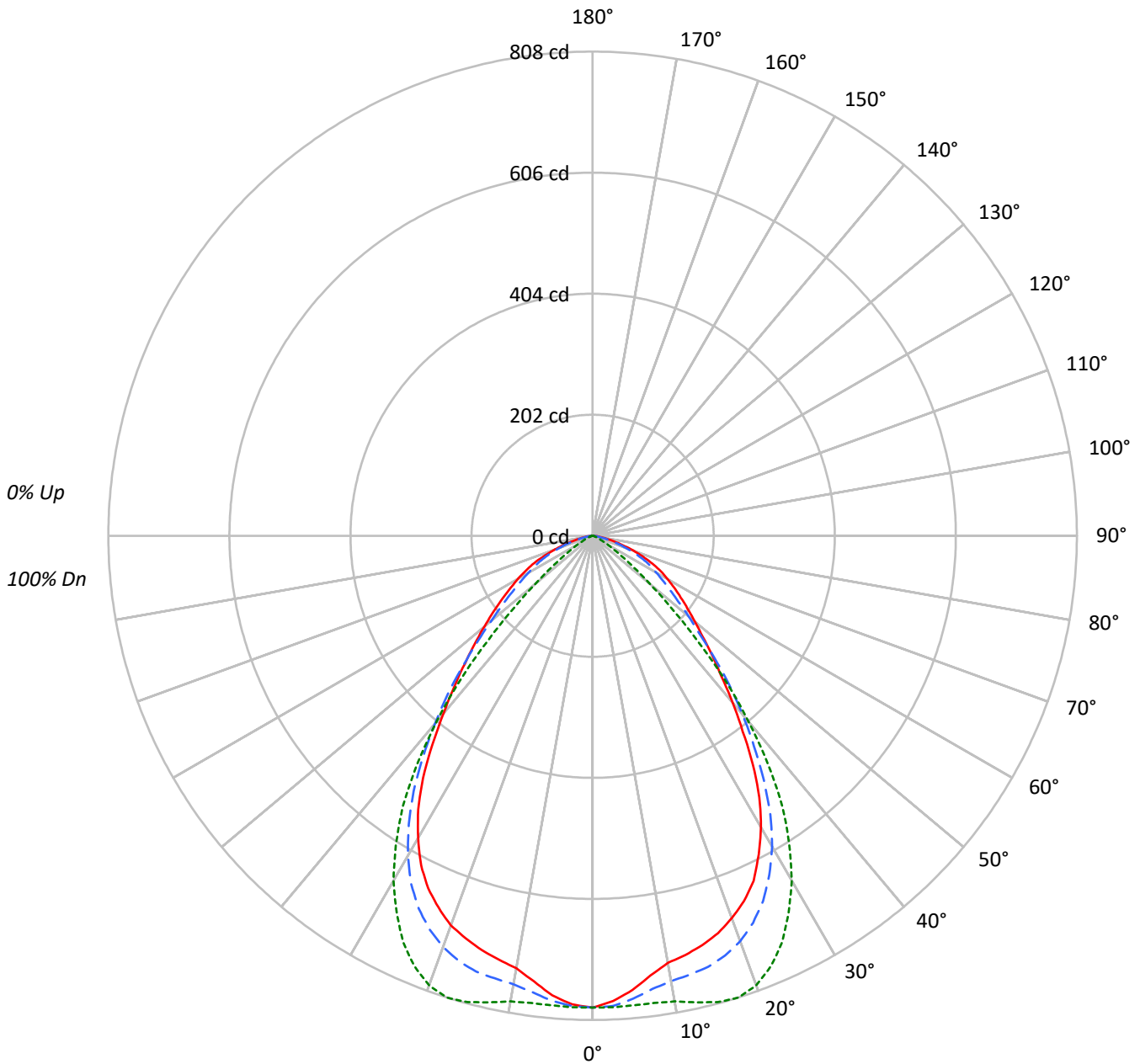
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	51370	51370	51370
5°	49838	51508	50434
10°	47936	52276	48546
15°	47766	54412	48326
20°	47141	55417	48030
25°	45739	53859	46718
30°	42307	50059	43882
35°	37114	44003	39296
40°	30924	34492	32951
45°	26028	22752	27790
50°	22542	12474	23933
55°	20406	6620	20917
60°	18776	3445	18776
65°	16996	1837	16580
70°	13715	1049	12685
75°	9427	706	8722
80°	6162	338	5485
85°	4117	674	3368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	5.4
10°-20°	212.3	15.6
20°-30°	313.7	23.0
30°-40°	316.8	23.2
40°-50°	218.4	16.0
50°-60°	125.4	9.2
60°-70°	73.0	5.4
70°-80°	26.6	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°	599.4	44.0
0°-40°	916.2	67.2
0°-60°	1260.0	92.4
0°-90°	1363.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1363.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	787	787	787	787	787	
5°	761	776	786	779	770	71
15°	707	745	806	753	716	199
25°	635	673	748	686	649	289
35°	466	498	552	521	493	289
45°	282	286	247	304	301	219
55°	179	158	58	164	184	161
65°	110	93	12	92	107	108
75°	37	30	3	29	35	42
85°	6	3	1	4	4	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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	777.4	778.2	779.1	778.2	779.1	782.8	780.1	781.9	781.9	782.8	785.5
5°	761.0	761.0	762.8	761.9	764.6	768.2	765.5	768.2	769.1	771.0	775.5
7.5°	740.0	740.0	741.0	741.0	744.6	748.2	746.4	750.0	753.6	757.4	762.8
10°	723.6	725.5	725.5	726.4	730.0	734.6	733.6	738.2	741.9	747.2	754.6
12.5°	716.4	717.2	717.2	719.1	722.8	727.2	726.4	730.9	736.4	742.8	750.0
15°	707.2	709.1	708.1	710.0	713.6	718.1	717.2	721.9	728.2	734.6	744.6
17.5°	695.4	696.4	697.2	697.2	700.9	704.5	704.5	709.1	716.4	723.6	734.6
20°	679.0	680.9	680.9	681.8	684.5	690.0	689.0	693.6	700.9	708.1	720.0
22.5°	659.9	660.9	660.9	661.8	666.2	669.0	670.0	673.6	680.0	688.1	699.1
25°	635.4	636.2	635.4	638.1	639.9	645.4	643.5	648.1	655.4	661.8	672.6
27.5°	599.9	601.6	601.6	602.6	607.1	611.6	611.6	616.2	622.6	627.1	638.1
30°	561.6	564.4	561.6	566.1	568.0	571.6	574.4	577.1	582.5	588.9	599.0
32.5°	517.9	517.0	517.9	519.8	525.2	528.0	529.8	532.5	538.0	543.4	551.6
35°	466.0	467.9	468.8	472.4	472.4	477.0	477.9	479.8	487.9	491.5	497.9
37.5°	411.4	413.2	414.1	416.0	419.6	421.5	424.1	426.9	432.4	438.8	442.4
40°	363.1	363.1	364.1	365.9	368.6	369.5	372.2	375.9	379.6	385.0	388.6
42.5°	317.6	318.6	317.6	319.5	322.2	325.9	325.0	329.5	330.4	334.0	336.8
45°	282.1	282.1	280.4	282.1	282.1	285.9	284.9	286.8	285.9	287.6	285.9
47.5°	248.5	249.4	248.5	249.4	249.4	249.4	250.4	248.5	249.4	246.6	241.2
50°	222.1	223.0	221.2	222.1	221.2	220.2	221.2	218.5	217.5	213.9	208.5
52.5°	199.4	198.4	197.5	197.5	197.5	196.6	195.8	193.0	190.2	186.6	180.2
55°	179.4	178.4	177.5	177.5	175.6	174.8	174.8	172.0	169.2	164.8	157.5
57.5°	161.1	160.2	159.2	159.2	158.4	156.5	156.5	153.9	150.2	144.8	138.4
60°	143.9	143.9	143.9	142.9	142.9	141.1	141.1	138.4	134.8	129.2	122.0
62.5°	128.4	127.4	127.4	127.4	127.4	126.5	125.6	123.8	120.1	114.8	108.4
65°	110.1	110.1	110.1	110.1	109.2	109.2	109.2	106.5	104.6	99.2	92.9
67.5°	90.1	90.1	90.1	90.1	89.2	90.1	90.1	88.2	86.5	81.0	75.5
70°	71.9	71.0	70.1	71.0	70.1	70.1	71.0	69.1	68.2	63.8	58.2
72.5°	52.8	53.8	52.8	52.8	52.8	51.9	52.8	51.9	50.1	46.4	42.8
75°	37.4	38.2	38.2	37.4	37.4	37.4	36.4	36.4	34.6	31.9	30.0
77.5°	25.5	25.5	25.5	25.5	24.6	24.6	24.6	23.6	22.8	20.9	19.1
80°	16.4	16.4	16.4	16.4	15.5	15.5	15.5	14.6	14.6	12.8	10.9
82.5°	10.0	10.0	10.0	10.0	10.0	10.0	9.1	9.1	8.2	7.2	6.4
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.5	4.5	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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	783.8	784.6	784.6	784.6	787.4	788.2	785.5	782.8	788.2	787.4	789.1
5°	774.6	777.4	779.1	780.1	782.8	784.6	781.9	781.0	785.5	786.5	787.4
7.5°	763.8	768.2	772.8	774.6	778.2	780.1	779.1	779.1	784.6	786.5	786.5
10°	756.4	762.8	768.2	772.8	777.4	780.1	780.1	781.0	787.4	789.1	791.0
12.5°	754.6	762.8	770.1	776.5	780.1	784.6	785.5	788.2	794.6	797.4	797.4
15°	750.0	761.0	770.1	778.2	783.8	789.1	791.0	796.5	803.8	805.6	807.4
17.5°	741.9	752.8	763.8	773.8	781.0	785.5	791.0	796.5	805.6	808.2	809.2
20°	727.2	740.0	751.0	761.0	768.2	774.6	780.1	786.5	794.6	798.2	799.2
22.5°	705.5	718.1	729.1	740.0	747.2	752.8	758.2	765.5	773.8	777.4	777.4
25°	679.0	690.9	702.8	710.9	718.1	724.5	727.2	735.5	743.6	748.2	748.2
27.5°	645.4	656.2	667.2	676.2	680.9	686.4	690.9	698.1	704.5	708.1	711.8
30°	602.6	613.5	623.5	632.6	638.1	643.5	648.1	653.5	659.9	664.5	665.4
32.5°	556.1	565.2	575.2	584.4	589.9	591.6	596.2	601.6	607.1	610.8	611.6
35°	505.1	511.5	517.9	526.1	531.6	531.6	536.1	539.8	544.4	552.5	550.8
37.5°	445.1	454.2	458.8	461.5	465.1	468.8	469.6	474.2	479.8	481.5	484.2
40°	388.6	391.4	394.1	394.1	397.8	397.8	397.8	398.6	404.1	405.0	408.8
42.5°	332.2	332.2	329.5	326.8	327.8	326.8	322.2	322.2	325.0	328.6	328.6
45°	279.5	273.1	264.9	258.5	254.0	252.1	246.6	246.6	245.8	246.6	250.4
47.5°	234.9	223.9	210.2	197.5	193.0	189.4	181.1	177.5	175.6	176.6	178.4
50°	197.5	185.8	170.2	154.8	146.5	142.0	132.0	125.6	124.8	122.9	126.5
52.5°	170.2	155.6	139.2	121.0	112.9	105.6	94.6	89.2	85.6	85.6	86.5
55°	146.5	131.1	112.9	94.6	86.5	81.0	70.1	62.8	59.1	58.2	61.0
57.5°	126.5	112.0	93.8	75.5	67.4	61.0	50.1	43.8	41.0	39.1	40.0
60°	111.0	96.5	78.2	61.0	53.8	46.4	37.4	30.0	26.4	26.4	27.2
62.5°	96.5	82.9	66.5	50.1	43.8	37.4	27.2	20.9	18.2	17.2	18.2
65°	81.9	69.1	55.5	41.9	35.5	30.0	21.9	16.4	12.8	11.9	12.8
67.5°	66.5	56.4	44.6	33.6	28.2	23.6	16.4	11.9	9.1	8.2	9.1
70°	51.9	42.8	33.6	24.6	20.9	17.2	11.9	9.1	6.4	5.5	6.4
72.5°	37.4	31.0	23.6	17.2	14.6	11.9	8.2	6.4	4.5	3.6	4.5
75°	25.5	20.9	15.5	10.9	9.1	8.2	5.5	3.6	2.8	2.8	2.8
77.5°	16.4	12.8	10.0	7.2	5.5	4.5	2.8	1.9	1.9	1.9	1.9
80°	9.1	7.2	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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	785.5	786.5	783.8	787.4	784.6	788.2	788.2	784.6	785.5	783.8	787.4
5°	783.8	783.8	781.9	784.6	781.0	784.6	783.8	777.4	779.1	775.5	779.1
7.5°	783.8	781.9	779.1	781.9	777.4	780.1	776.5	770.1	768.2	763.8	763.8
10°	786.5	783.8	780.1	781.0	776.5	777.4	771.9	762.8	760.0	754.6	752.8
12.5°	792.9	790.1	784.6	786.5	780.1	780.1	772.8	761.9	756.4	749.1	747.2
15°	801.9	797.4	791.0	791.9	785.5	781.9	772.8	760.0	752.8	742.8	740.0
17.5°	803.8	799.2	791.0	791.0	782.8	778.2	767.4	752.8	743.6	733.6	728.2
20°	793.8	789.1	780.1	779.1	771.9	765.5	753.6	739.1	730.0	719.1	714.5
22.5°	772.8	767.4	759.1	758.2	751.0	747.2	734.6	720.0	710.9	700.0	696.4
25°	741.9	739.1	730.9	730.0	723.6	719.1	708.1	694.5	686.4	675.4	671.8
27.5°	705.5	702.8	694.5	694.5	687.2	684.5	674.5	661.8	655.4	645.4	640.8
30°	661.8	658.1	653.5	652.6	646.2	643.5	634.5	622.6	616.2	608.0	606.2
32.5°	609.9	607.1	604.4	603.5	597.1	594.4	588.0	576.1	570.8	563.5	560.8
35°	549.8	548.0	545.2	544.4	541.6	538.9	532.5	523.4	520.6	515.2	512.5
37.5°	480.6	482.4	480.6	480.6	477.9	478.8	473.4	467.9	465.1	461.5	459.6
40°	406.0	409.6	412.4	412.4	411.4	415.1	414.1	409.6	408.8	406.9	406.0
42.5°	330.4	332.2	337.8	341.4	340.4	349.5	350.5	354.1	356.9	355.0	355.9
45°	251.2	256.8	264.0	267.6	272.1	284.0	290.4	297.6	304.0	307.6	306.8
47.5°	181.1	187.5	195.8	201.1	209.4	223.9	240.2	249.4	258.5	263.0	267.6
50°	131.1	137.5	147.5	155.6	161.1	181.1	198.4	210.2	220.2	226.6	231.2
52.5°	91.9	99.2	110.1	117.4	125.6	144.8	164.8	178.4	189.4	197.5	202.1
55°	63.8	71.9	81.9	89.2	98.2	118.4	137.5	152.0	163.9	171.1	176.6
57.5°	44.6	51.9	61.9	68.2	77.4	96.5	115.6	130.1	142.0	149.2	155.6
60°	30.0	37.4	47.4	53.8	61.0	80.1	97.4	112.9	123.8	131.1	137.5
62.5°	20.9	27.2	37.4	43.8	50.1	66.5	82.9	96.5	107.4	115.6	121.0
65°	16.4	21.9	30.0	35.5	41.9	55.5	69.1	81.0	91.9	100.1	103.8
67.5°	11.9	17.2	23.6	28.2	32.8	44.6	56.4	65.5	75.5	81.9	86.5
70°	8.2	11.9	17.2	20.9	24.6	33.6	42.8	51.0	58.2	62.8	66.5
72.5°	6.4	8.2	11.9	14.6	17.2	23.6	31.0	37.4	42.8	46.4	50.1
75°	3.6	5.5	8.2	10.0	11.9	16.4	20.9	25.5	29.1	31.9	33.6
77.5°	1.9	2.8	4.5	5.5	7.2	10.0	13.6	16.4	19.1	20.9	22.8
80°	1.9	1.9	2.8	2.8	3.6	5.5	7.2	9.1	10.9	12.8	13.6
82.5°	0.9	0.9	1.9	1.9	1.9	2.8	3.6	5.5	6.4	7.2	8.2
85°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	3.6	4.5	4.5
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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	784.6	786.5	785.5	787.4	784.6	783.8	785.5	782.8
5°	774.6	775.5	774.6	774.6	772.8	771.0	772.8	770.1
7.5°	759.1	759.1	756.4	756.4	752.8	751.0	751.0	750.0
10°	746.4	743.6	741.0	741.9	736.4	734.6	733.6	732.8
12.5°	740.0	738.2	733.6	733.6	728.2	726.4	725.5	724.5
15°	732.8	729.1	725.5	724.5	720.0	718.1	717.2	715.5
17.5°	720.0	717.2	712.8	712.8	708.1	707.2	705.5	704.5
20°	706.4	702.8	699.1	699.1	693.6	693.6	690.9	691.8
22.5°	687.2	684.5	680.9	680.9	676.2	675.4	672.6	671.8
25°	664.5	660.9	658.1	657.2	653.5	651.8	650.9	649.0
27.5°	634.5	631.8	629.0	627.1	622.6	621.8	619.0	619.9
30°	597.1	595.2	594.4	592.6	587.1	585.2	585.2	582.5
32.5°	556.1	553.4	551.6	548.9	544.4	543.4	540.6	541.6
35°	506.1	502.5	499.8	500.6	495.1	494.2	492.5	493.4
37.5°	454.2	450.6	446.9	446.0	441.5	441.5	438.8	438.8
40°	400.5	396.9	395.0	395.0	389.6	390.5	387.8	386.9
42.5°	352.2	348.6	347.8	346.8	344.1	343.1	340.4	341.4
45°	306.8	305.9	305.9	304.0	301.2	300.4	301.2	301.2
47.5°	266.8	267.6	266.8	266.8	264.9	266.8	264.9	265.8
50°	233.0	234.9	234.9	234.9	233.9	234.9	234.9	235.8
52.5°	204.8	207.5	206.6	207.5	206.6	208.5	207.5	208.5
55°	180.2	182.0	183.0	183.9	183.9	183.9	183.9	183.9
57.5°	157.5	160.2	161.1	162.0	162.0	163.9	162.0	162.0
60°	139.2	142.0	142.9	143.9	143.9	144.8	142.9	143.9
62.5°	122.9	125.6	125.6	126.5	126.5	126.5	124.8	125.6
65°	106.5	107.4	108.4	108.4	107.4	107.4	106.5	107.4
67.5°	88.2	89.2	88.2	88.2	87.4	87.4	85.6	86.5
70°	68.2	68.2	69.1	68.2	67.4	68.2	67.4	66.5
72.5°	51.0	51.0	51.0	50.1	50.1	49.1	50.1	50.1
75°	34.6	34.6	35.5	35.5	35.5	35.5	34.6	34.6
77.5°	22.8	22.8	22.8	22.8	23.6	22.8	22.8	22.8
80°	14.6	14.6	15.5	15.5	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	4.5	4.5	4.5	4.5
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)