

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: P252356

Luminaire Tested: **LE\_6B15D010 EC6B10209030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B15D010 EC6B10209030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1416.2 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

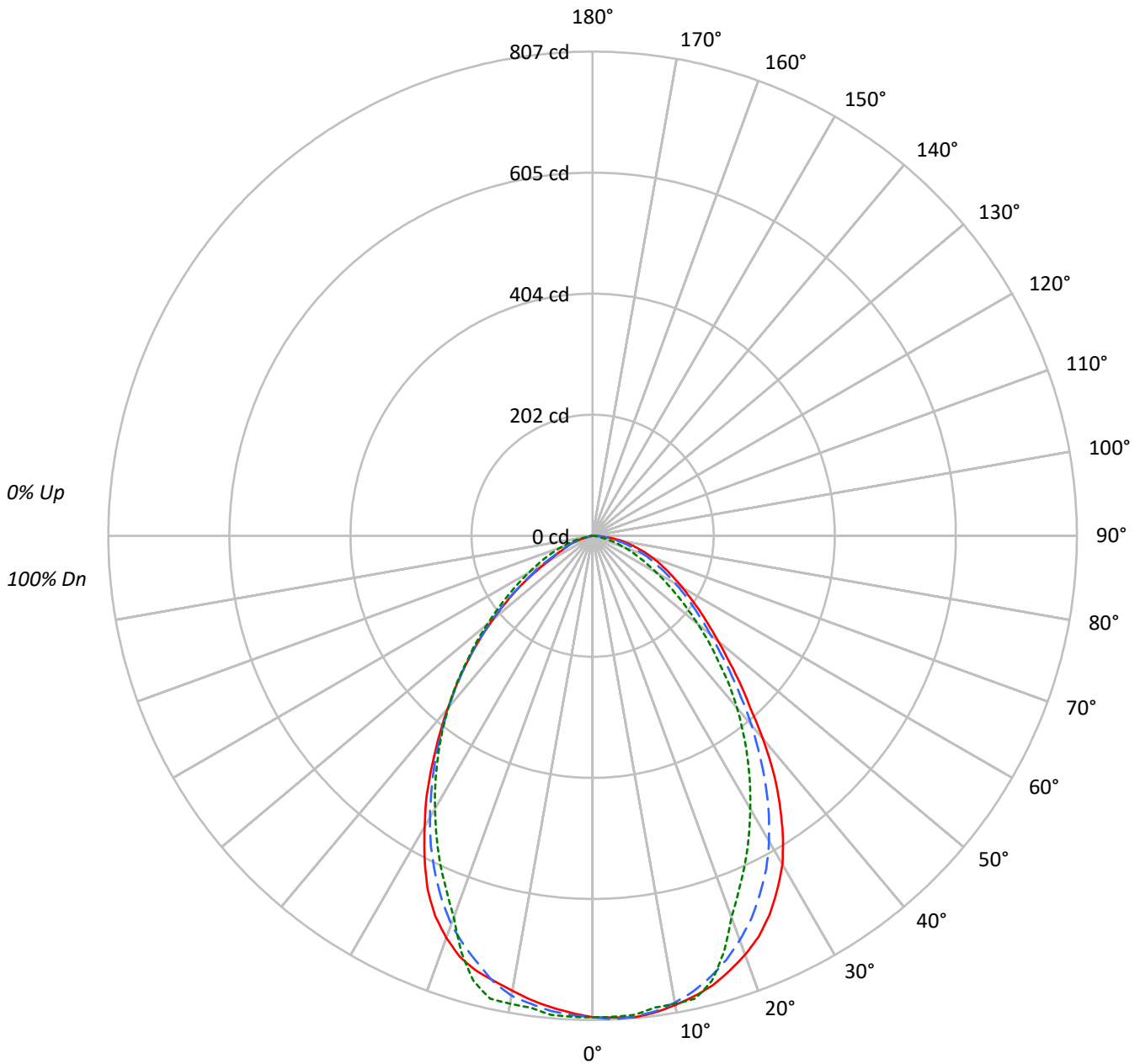
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

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

	0°	90°	180°
0°	52356	52356	52356
5°	52759	52484	51665
10°	52607	52468	51017
15°	52372	51879	50684
20°	51585	46961	49495
25°	50188	43292	46805
30°	47656	39565	42157
35°	43247	35768	37106
40°	37550	31860	31946
45°	32016	27402	27116
50°	27709	23161	21903
55°	24773	19325	16948
60°	22573	16049	11417
65°	21072	13199	8521
70°	20067	10720	7153
75°	18905	7613	2369
80°	18034	3907	789
85°	14821	2321	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	5.4
10°-20°	211.9	15.0
20°-30°	292.5	20.7
30°-40°	297.7	21.0
40°-50°	239.3	16.9
50°-60°	159.1	11.2
60°-70°	90.7	6.4
70°-80°	40.7	2.9
80°-90°	8.6	0.6
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°	580.3	41.0
0°-40°	878.0	62.0
0°-60°	1276.3	90.1
0°-90°	1416.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	802	802	802	802	802	
5°	806	804	801	795	789	76
15°	775	761	768	738	750	218
25°	697	660	601	621	650	319
35°	543	501	449	458	466	337
45°	347	326	297	294	294	269
55°	218	203	170	151	149	196
65°	136	122	86	55	55	136
75°	75	62	30	12	9	80
85°	20	14	3	1	0	23
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°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	803.5	807.6	806.6	805.6	806.6	805.6	803.5	803.5	801.4	801.4	806.6
5°	805.6	807.6	806.6	805.6	805.6	806.6	802.5	802.5	800.4	799.4	804.5
7.5°	801.4	804.5	802.5	802.5	801.4	802.5	798.2	798.2	795.1	794.1	799.4
10°	794.1	798.2	796.2	796.2	796.2	794.1	792.0	791.0	787.9	786.9	790.0
12.5°	785.8	788.9	787.9	785.8	785.8	785.8	781.6	780.6	776.4	774.4	777.5
15°	775.4	777.5	776.4	775.4	773.2	773.2	769.1	767.0	762.9	758.8	760.8
17.5°	759.8	762.9	760.8	759.8	756.6	756.6	752.4	750.4	744.1	739.9	741.0
20°	743.0	744.1	743.0	741.0	737.9	736.8	732.6	728.5	723.2	718.0	717.0
22.5°	723.2	724.2	721.1	719.1	716.0	714.9	709.8	706.6	698.2	692.0	691.0
25°	697.2	698.2	698.2	693.0	691.0	688.9	683.6	678.5	671.1	662.8	659.6
27.5°	665.9	669.1	667.0	661.8	657.6	656.5	651.4	647.1	637.8	630.5	626.4
30°	632.6	631.5	630.5	627.4	621.1	620.1	614.9	609.6	602.4	593.0	587.8
32.5°	589.9	589.9	588.9	585.8	579.5	577.4	573.1	566.9	558.6	551.2	546.1
35°	543.0	544.0	543.0	536.8	532.5	530.5	528.4	521.1	513.8	505.5	501.2
37.5°	494.0	490.9	491.9	486.6	481.5	483.5	477.2	474.1	465.9	459.6	455.4
40°	440.9	442.9	438.8	436.6	433.5	430.4	430.4	425.2	421.0	413.8	411.6
42.5°	388.8	391.9	390.8	388.8	384.5	385.6	380.4	378.2	373.1	370.0	366.9
45°	347.0	347.0	347.0	345.0	343.9	341.9	338.8	335.6	332.5	328.2	326.2
47.5°	306.4	306.4	307.4	305.4	303.2	302.2	300.1	300.1	294.9	290.8	288.6
50°	273.0	273.0	273.0	271.0	268.9	268.9	266.8	264.8	261.6	258.5	256.4
52.5°	242.9	242.9	242.9	240.8	239.8	238.6	237.6	236.6	232.4	230.4	228.2
55°	217.8	216.8	216.8	215.8	213.6	213.6	212.6	210.5	207.4	204.2	203.2
57.5°	192.8	193.9	192.8	192.8	190.8	190.8	188.6	187.6	184.5	182.4	180.2
60°	173.0	173.0	173.0	172.0	169.9	170.9	168.9	167.8	164.6	161.5	159.5
62.5°	153.2	154.2	154.2	153.2	151.1	151.1	150.1	149.0	145.9	142.8	139.6
65°	136.5	136.5	136.5	135.5	134.5	134.5	133.4	132.4	129.2	125.0	121.9
67.5°	120.9	119.9	119.9	119.9	118.8	117.8	116.8	115.6	112.5	109.4	105.2
70°	105.2	105.2	105.2	104.2	102.1	103.1	102.1	101.1	98.0	94.9	91.8
72.5°	90.6	90.6	89.6	88.6	88.6	87.5	87.5	86.5	83.4	79.2	76.1
75°	75.0	75.0	75.0	75.0	73.0	74.0	71.9	70.9	68.8	65.6	62.5
77.5°	61.5	61.5	61.5	60.5	59.4	59.4	58.4	57.4	54.2	52.1	48.0
80°	48.0	48.0	48.0	48.0	46.9	45.9	44.9	43.8	41.6	38.5	35.4
82.5°	35.4	35.4	34.4	34.4	34.4	33.4	32.2	31.2	29.1	27.1	25.0
85°	19.8	20.9	20.9	18.8	19.8	18.8	18.8	16.6	16.6	14.6	13.5
87.5°	7.2	6.2	6.2	6.2	6.2	6.2	6.2	5.2	5.2	5.2	4.1
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°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	802.5	801.4	805.6	805.6	799.4	802.5	803.5	801.4	801.4	802.5	799.4
5°	800.4	798.2	802.5	803.5	797.2	800.4	801.4	799.4	800.4	801.4	797.2
7.5°	793.1	793.1	796.2	797.2	791.0	794.1	794.1	792.0	793.1	793.1	790.0
10°	785.8	782.6	785.8	785.8	780.6	781.6	783.8	782.6	786.9	792.0	792.0
12.5°	772.2	769.1	774.4	774.4	771.2	775.4	780.6	783.8	787.9	790.0	783.8
15°	755.5	756.6	766.0	773.2	770.1	776.4	781.6	779.5	774.4	768.1	758.8
17.5°	733.6	730.5	738.9	743.0	738.9	741.0	745.1	741.0	732.6	727.4	714.9
20°	708.6	700.4	700.4	698.2	691.0	691.0	689.9	682.6	679.5	676.4	671.1
22.5°	680.5	671.1	668.0	661.8	655.5	654.5	651.4	644.0	639.9	637.8	631.5
25°	648.2	639.9	634.6	628.4	619.0	617.0	613.9	606.5	604.5	601.4	596.1
27.5°	614.9	604.5	597.1	590.9	582.6	581.5	575.2	570.0	565.9	563.8	559.6
30°	576.2	564.9	559.6	551.2	545.0	543.0	537.8	530.5	527.4	525.2	522.1
32.5°	533.6	524.2	519.0	511.8	503.4	504.4	498.1	491.9	489.9	487.8	484.6
35°	491.9	482.5	476.2	470.0	464.8	462.8	458.5	453.4	450.2	449.1	447.1
37.5°	446.0	438.8	433.5	427.2	423.1	421.0	419.0	413.8	411.6	411.6	407.5
40°	401.2	395.0	390.8	387.6	382.5	381.4	379.4	376.2	375.1	374.1	371.0
42.5°	360.6	352.2	349.1	347.0	343.9	341.9	340.8	338.8	337.6	336.6	333.5
45°	322.0	314.8	311.6	309.5	306.4	305.4	304.2	301.1	299.1	297.0	296.0
47.5°	284.5	279.2	278.2	273.0	271.0	268.9	266.8	264.8	263.6	262.6	258.5
50°	252.2	249.1	243.9	240.8	238.6	237.6	233.5	230.4	229.2	228.2	225.1
52.5°	223.0	218.9	215.8	210.5	209.5	207.4	205.2	201.1	199.0	198.0	194.9
55°	197.0	193.9	189.6	185.5	182.4	181.4	178.2	174.0	172.0	169.9	167.8
57.5°	175.1	169.9	165.8	161.5	159.5	156.4	153.2	151.1	148.0	144.9	141.8
60°	154.2	150.1	144.9	140.8	138.6	136.5	132.4	129.2	126.1	123.0	119.9
62.5°	134.5	130.2	125.0	120.9	118.8	116.8	112.5	109.4	106.2	103.1	99.0
65°	116.8	112.5	108.4	104.2	102.1	100.0	95.9	91.8	88.6	85.5	81.2
67.5°	102.1	96.9	92.8	88.6	86.5	84.4	80.2	77.1	73.0	69.9	65.6
70°	86.5	82.4	79.2	75.0	73.0	70.9	66.8	62.5	59.4	56.2	52.1
72.5°	73.0	67.8	64.6	60.5	58.4	57.4	53.1	50.0	46.9	42.8	39.6
75°	58.4	54.2	50.0	46.9	44.9	43.8	39.6	36.5	33.4	30.2	27.1
77.5°	44.9	41.6	37.5	34.4	32.2	31.2	27.1	24.0	20.9	18.8	15.6
80°	33.4	29.1	27.1	24.0	22.9	20.9	18.8	15.6	13.5	10.4	8.4
82.5°	22.9	19.8	17.8	15.6	14.6	13.5	11.5	9.4	7.2	6.2	5.2
85°	12.5	10.4	9.4	8.4	7.2	7.2	6.2	5.2	4.1	3.1	2.1
87.5°	4.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0
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°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	801.4	801.4	801.4	800.4	800.4	800.4	799.4	803.5	799.4	798.2	801.4
5°	800.4	798.2	798.2	798.2	798.2	797.2	796.2	798.2	795.1	794.1	794.1
7.5°	794.1	793.1	793.1	792.0	791.0	790.0	788.9	790.0	786.9	785.8	785.8
10°	795.1	793.1	793.1	790.0	787.9	784.8	781.6	782.6	778.5	775.4	775.4
12.5°	782.6	777.5	774.4	771.2	769.1	768.1	763.9	766.0	761.9	760.8	760.8
15°	754.5	748.2	743.0	741.0	741.0	738.9	735.8	739.9	737.9	738.9	744.1
17.5°	710.8	707.6	704.5	703.5	704.5	706.6	708.6	714.9	714.9	718.0	723.2
20°	672.2	670.1	672.2	672.2	673.2	677.4	681.6	686.8	688.9	692.0	699.2
22.5°	634.6	634.6	636.8	639.9	638.9	646.1	647.1	656.5	656.5	662.8	669.1
25°	598.2	598.2	600.2	601.4	603.4	607.6	611.8	619.0	621.1	627.4	632.6
27.5°	562.8	561.8	561.8	562.8	564.9	570.0	572.1	580.5	583.6	587.8	593.0
30°	523.1	522.1	524.2	526.2	525.2	530.5	533.6	539.9	541.9	546.1	550.2
32.5°	485.6	485.6	485.6	487.8	487.8	491.9	491.9	499.2	499.2	502.4	506.5
35°	447.1	447.1	448.1	449.1	450.2	451.2	452.2	456.5	457.5	458.5	460.6
37.5°	410.6	409.6	410.6	410.6	408.5	412.8	412.8	416.9	413.8	416.9	417.9
40°	373.1	373.1	372.0	372.0	372.0	374.1	372.0	375.1	373.1	375.1	374.1
42.5°	334.5	334.5	332.5	334.5	333.5	333.5	333.5	335.6	332.5	334.5	335.6
45°	296.0	294.9	294.9	293.9	293.9	293.9	294.9	294.9	293.9	296.0	296.0
47.5°	258.5	257.4	257.4	257.4	257.4	258.5	255.4	257.4	255.4	255.4	255.4
50°	226.1	225.1	224.1	223.0	222.0	222.0	220.9	220.9	218.9	217.8	216.8
52.5°	194.9	193.9	191.8	191.8	190.8	189.6	186.5	186.5	183.4	182.4	182.4
55°	166.8	163.6	162.6	160.5	160.5	158.4	156.4	154.2	151.1	149.0	149.0
57.5°	140.8	137.6	135.5	134.5	133.4	131.2	127.1	126.1	121.9	120.9	119.9
60°	117.8	114.6	111.5	109.4	108.4	105.2	101.1	99.0	96.9	93.8	90.6
62.5°	95.9	92.8	88.6	87.5	85.5	82.4	79.2	76.1	74.0	70.9	68.8
65°	77.1	74.0	70.9	68.8	66.8	63.6	60.5	57.4	55.2	54.2	53.1
67.5°	62.5	58.4	55.2	54.2	52.1	50.0	46.9	45.9	43.8	43.8	43.8
70°	49.0	45.9	42.8	41.6	40.6	38.5	36.5	36.5	36.5	36.5	36.5
72.5°	36.5	34.4	31.2	30.2	29.1	28.1	26.0	27.1	26.0	26.0	26.0
75°	22.9	20.9	18.8	17.8	16.6	15.6	14.6	13.5	12.5	11.5	11.5
77.5°	12.5	10.4	9.4	8.4	8.4	7.2	6.2	6.2	5.2	5.2	5.2
80°	7.2	6.2	5.2	4.1	4.1	3.1	3.1	3.1	3.1	2.1	2.1
82.5°	4.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
85°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5
2.5°	796.2	799.4	796.2	799.4	799.4	799.4	799.4	796.2
5°	791.0	793.1	790.0	792.0	793.1	792.0	792.0	788.9
7.5°	781.6	783.8	780.6	783.8	784.8	783.8	782.6	780.6
10°	772.2	773.2	770.1	772.2	774.4	774.4	773.2	770.1
12.5°	757.6	760.8	757.6	759.8	761.9	762.9	762.9	759.8
15°	741.0	746.1	744.1	747.2	750.4	751.4	751.4	750.4
17.5°	724.2	729.5	726.4	731.6	734.8	736.8	737.9	735.8
20°	700.4	706.6	704.5	708.6	712.9	716.0	716.0	712.9
22.5°	669.1	677.4	676.4	679.5	684.8	685.8	687.9	685.8
25°	634.6	640.9	639.9	643.0	649.2	649.2	650.2	650.2
27.5°	595.1	601.4	600.2	602.4	606.5	607.6	608.6	606.5
30°	552.4	555.5	555.5	558.6	561.8	562.8	562.8	559.6
32.5°	505.5	509.6	511.8	510.6	513.8	515.9	514.9	514.9
35°	462.8	463.8	464.8	465.9	466.9	469.0	466.9	465.9
37.5°	416.9	420.0	417.9	420.0	422.1	421.0	420.0	420.0
40°	375.1	376.2	374.1	376.2	377.2	377.2	377.2	375.1
42.5°	333.5	335.6	333.5	335.6	335.6	335.6	335.6	334.5
45°	291.8	293.9	293.9	294.9	294.9	293.9	293.9	293.9
47.5°	253.2	255.4	253.2	255.4	256.4	254.2	254.2	254.2
50°	216.8	215.8	215.8	216.8	216.8	216.8	216.8	215.8
52.5°	179.2	180.2	180.2	180.2	181.4	180.2	181.4	181.4
55°	147.0	147.0	147.0	148.0	147.0	147.0	148.0	149.0
57.5°	117.8	116.8	115.6	115.6	116.8	115.6	115.6	115.6
60°	90.6	89.6	88.6	88.6	88.6	88.6	88.6	87.5
62.5°	67.8	67.8	67.8	68.8	68.8	68.8	68.8	69.9
65°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	55.2
67.5°	43.8	43.8	43.8	44.9	44.9	44.9	44.9	44.9
70°	36.5	36.5	37.5	36.5	37.5	37.5	37.5	37.5
72.5°	25.0	25.0	25.0	25.0	25.0	24.0	25.0	24.0
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	9.4
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
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)