

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: P252355

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252355
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 EC6B10209027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1361.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

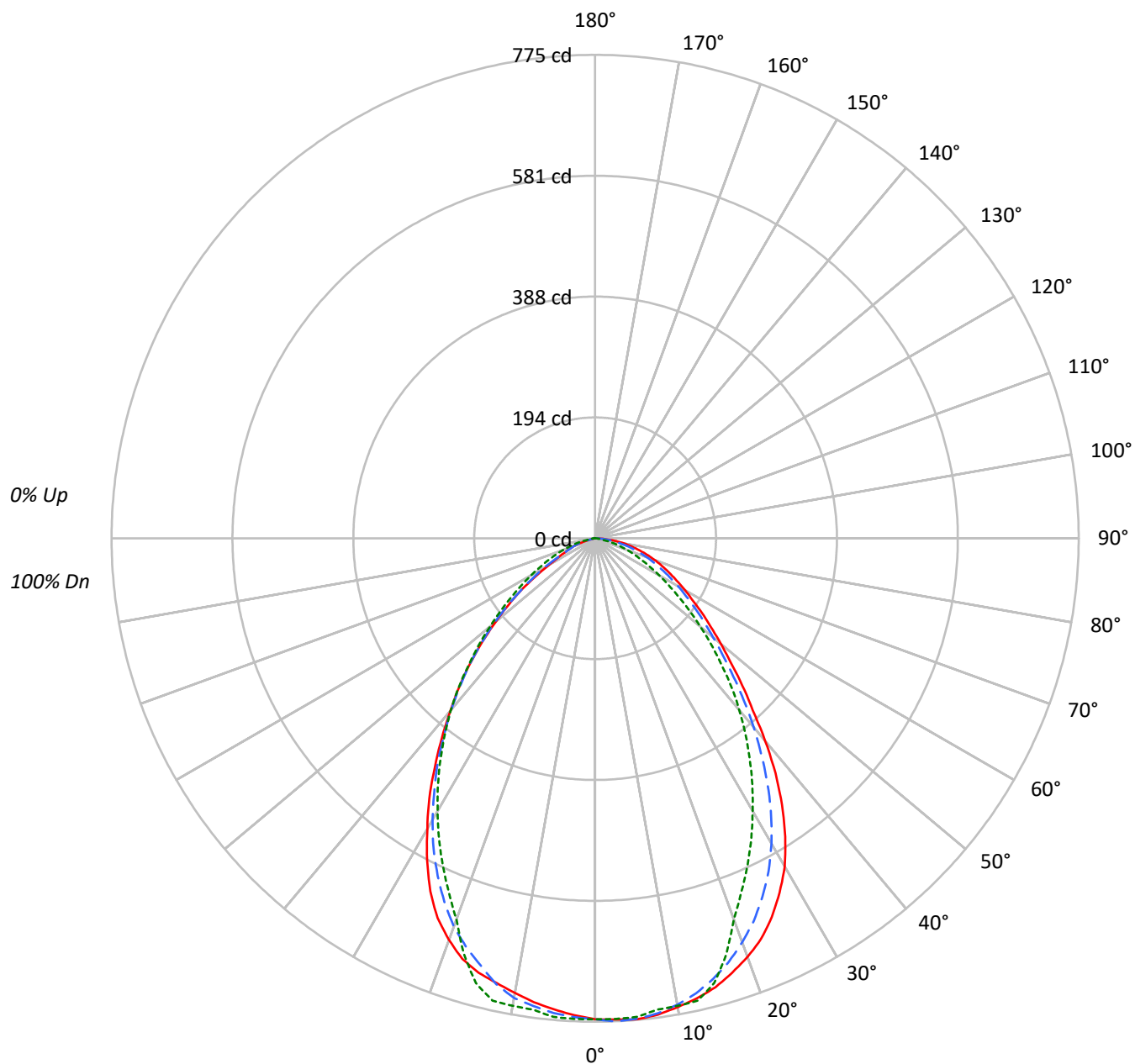
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	50314	50314	50314
5°	50702	50440	49654
10°	50560	50427	49036
15°	50332	49860	48711
20°	49585	45135	47565
25°	48237	41607	44991
30°	45803	38036	40522
35°	41566	34390	35665
40°	36093	30626	30711
45°	30770	26341	26065
50°	26643	22268	21050
55°	23818	18563	16288
60°	21686	15423	10973
65°	20254	12674	8197
70°	19285	10320	6867
75°	18174	7310	2269
80°	17320	3757	751
85°	14222	2246	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	5.4
10°-20°	203.7	15.0
20°-30°	281.2	20.7
30°-40°	286.1	21.0
40°-50°	230.0	16.9
50°-60°	152.9	11.2
60°-70°	87.1	6.4
70°-80°	39.1	2.9
80°-90°	8.2	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°	557.7	41.0
0°-40°	843.9	62.0
0°-60°	1226.7	90.1
0°-90°	1361.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	771	771	771	771	771	
5°	774	773	770	764	758	73
15°	745	731	738	709	721	210
25°	670	634	578	597	625	307
35°	522	482	432	440	448	324
45°	334	314	286	282	282	259
55°	209	195	163	145	143	188
65°	131	117	82	53	53	131
75°	72	60	29	12	9	77
85°	19	13	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°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	772.2	776.2	775.2	774.2	775.2	774.2	772.2	772.2	770.2	770.2	775.2
5°	774.2	776.2	775.2	774.2	774.2	775.2	771.2	771.2	769.2	768.2	773.2
7.5°	770.2	773.2	771.2	771.2	770.2	771.2	767.2	767.2	764.2	763.2	768.2
10°	763.2	767.2	765.2	765.2	765.2	763.2	761.2	760.2	757.2	756.2	759.2
12.5°	755.2	758.2	757.2	755.2	755.2	755.2	751.2	750.2	746.2	744.2	747.2
15°	745.2	747.2	746.2	745.2	743.2	743.2	739.2	737.2	733.2	729.2	731.2
17.5°	730.2	733.2	731.2	730.2	727.2	727.2	723.2	721.2	715.2	711.2	712.2
20°	714.2	715.2	714.2	712.2	709.2	708.2	704.1	700.1	695.1	690.1	689.1
22.5°	695.1	696.1	693.1	691.1	688.1	687.1	682.1	679.1	671.1	665.1	664.1
25°	670.1	671.1	671.1	666.1	664.1	662.1	657.1	652.1	645.1	637.1	634.1
27.5°	640.1	643.1	641.1	636.1	632.0	631.0	626.0	622.0	613.0	606.0	602.0
30°	608.0	607.0	606.0	603.0	597.0	596.0	591.0	586.0	579.0	570.0	565.0
32.5°	567.0	567.0	566.0	563.0	556.9	554.9	550.9	544.9	536.9	529.9	524.9
35°	521.9	522.9	521.9	515.9	511.9	509.9	507.9	500.9	493.9	485.9	481.8
37.5°	474.8	471.8	472.8	467.8	462.8	464.8	458.8	455.8	447.8	441.8	437.8
40°	423.8	425.8	421.8	419.8	416.8	413.8	413.8	408.6	404.6	397.6	395.6
42.5°	373.6	376.6	375.6	373.6	369.6	370.6	365.6	363.6	358.6	355.6	352.6
45°	333.5	333.5	333.5	331.5	330.5	328.5	325.5	322.5	319.5	315.5	313.5
47.5°	294.5	294.5	295.5	293.5	291.5	290.5	288.5	288.5	283.5	279.5	277.5
50°	262.5	262.5	262.5	260.4	258.4	258.4	256.4	254.4	251.4	248.4	246.4
52.5°	233.4	233.4	233.4	231.4	230.4	229.4	228.4	227.4	223.4	221.4	219.4
55°	209.4	208.4	208.4	207.4	205.4	205.4	204.4	202.4	199.4	196.4	195.4
57.5°	185.2	186.4	185.2	185.2	183.2	183.2	181.2	180.2	177.2	175.2	173.2
60°	166.2	166.2	166.2	165.2	163.2	164.2	162.2	161.2	158.2	155.2	153.2
62.5°	147.2	148.2	148.2	147.2	145.2	145.2	144.2	143.2	140.2	137.2	134.2
65°	131.2	131.2	131.2	130.2	129.2	129.2	128.2	127.2	124.2	120.2	117.2
67.5°	116.2	115.2	115.2	115.2	114.2	113.2	112.2	111.1	108.1	105.1	101.1
70°	101.1	101.1	101.1	100.1	98.1	99.1	98.1	97.1	94.1	91.1	88.1
72.5°	87.1	87.1	86.1	85.1	85.1	84.1	84.1	83.1	80.1	76.1	73.1
75°	72.1	72.1	72.1	72.1	70.1	71.1	69.1	68.1	66.1	63.1	60.1
77.5°	59.1	59.1	59.1	58.1	57.1	57.1	56.1	55.1	52.1	50.1	46.1
80°	46.1	46.1	46.1	46.1	45.1	44.1	43.1	42.1	40.1	37.0	34.0
82.5°	34.0	34.0	33.0	33.0	33.0	32.0	31.0	30.0	28.0	26.0	24.0
85°	19.0	20.0	20.0	18.0	19.0	18.0	18.0	16.0	16.0	14.0	13.0
87.5°	7.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	4.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	771.2	770.2	774.2	774.2	768.2	771.2	772.2	770.2	770.2	771.2	768.2
5°	769.2	767.2	771.2	772.2	766.2	769.2	770.2	768.2	769.2	770.2	766.2
7.5°	762.2	762.2	765.2	766.2	760.2	763.2	763.2	761.2	762.2	762.2	759.2
10°	755.2	752.2	755.2	755.2	750.2	751.2	753.2	752.2	756.2	761.2	761.2
12.5°	742.2	739.2	744.2	744.2	741.2	745.2	750.2	753.2	757.2	759.2	753.2
15°	726.2	727.2	736.2	743.2	740.2	746.2	751.2	749.2	744.2	738.2	729.2
17.5°	705.1	702.1	710.2	714.2	710.2	712.2	716.2	712.2	704.1	699.1	687.1
20°	681.1	673.1	673.1	671.1	664.1	664.1	663.1	656.1	653.1	650.1	645.1
22.5°	654.1	645.1	642.1	636.1	630.0	629.0	626.0	619.0	615.0	613.0	607.0
25°	623.0	615.0	610.0	604.0	595.0	593.0	590.0	583.0	581.0	578.0	573.0
27.5°	591.0	581.0	574.0	568.0	560.0	559.0	552.9	547.9	543.9	541.9	537.9
30°	553.9	542.9	537.9	529.9	523.9	521.9	516.9	509.9	506.9	504.9	501.9
32.5°	512.9	503.9	498.9	491.9	483.9	484.9	478.8	472.8	470.8	468.8	465.8
35°	472.8	463.8	457.8	451.8	446.8	444.8	440.8	435.8	432.8	431.8	429.8
37.5°	428.8	421.8	416.8	410.8	406.6	404.6	402.6	397.6	395.6	395.6	391.6
40°	385.6	379.6	375.6	372.6	367.6	366.6	364.6	361.6	360.6	359.6	356.6
42.5°	346.6	338.6	335.6	333.5	330.5	328.5	327.5	325.5	324.5	323.5	320.5
45°	309.5	302.5	299.5	297.5	294.5	293.5	292.5	289.5	287.5	285.5	284.5
47.5°	273.5	268.5	267.5	262.5	260.4	258.4	256.4	254.4	253.4	252.4	248.4
50°	242.4	239.4	234.4	231.4	229.4	228.4	224.4	221.4	220.4	219.4	216.4
52.5°	214.4	210.4	207.4	202.4	201.4	199.4	197.4	193.4	191.4	190.4	187.4
55°	189.4	186.4	182.2	178.2	175.2	174.2	171.2	167.2	165.2	163.2	161.2
57.5°	168.2	163.2	159.2	155.2	153.2	150.2	147.2	145.2	142.2	139.2	136.2
60°	148.2	144.2	139.2	135.2	133.2	131.2	127.2	124.2	121.2	118.2	115.2
62.5°	129.2	125.2	120.2	116.2	114.2	112.2	108.1	105.1	102.1	99.1	95.1
65°	112.2	108.1	104.1	100.1	98.1	96.1	92.1	88.1	85.1	82.1	78.1
67.5°	98.1	93.1	89.1	85.1	83.1	81.1	77.1	74.1	70.1	67.1	63.1
70°	83.1	79.1	76.1	72.1	70.1	68.1	64.1	60.1	57.1	54.1	50.1
72.5°	70.1	65.1	62.1	58.1	56.1	55.1	51.1	48.1	45.1	41.1	38.1
75°	56.1	52.1	48.1	45.1	43.1	42.1	38.1	35.0	32.0	29.0	26.0
77.5°	43.1	40.1	36.0	33.0	31.0	30.0	26.0	23.0	20.0	18.0	15.0
80°	32.0	28.0	26.0	23.0	22.0	20.0	18.0	15.0	13.0	10.0	8.0
82.5°	22.0	19.0	17.0	15.0	14.0	13.0	11.0	9.0	7.0	6.0	5.0
85°	12.0	10.0	9.0	8.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0
87.5°	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	770.2	770.2	770.2	769.2	769.2	769.2	768.2	772.2	768.2	767.2	770.2
5°	769.2	767.2	767.2	767.2	767.2	766.2	765.2	767.2	764.2	763.2	763.2
7.5°	763.2	762.2	762.2	761.2	760.2	759.2	758.2	759.2	756.2	755.2	755.2
10°	764.2	762.2	762.2	759.2	757.2	754.2	751.2	752.2	748.2	745.2	745.2
12.5°	752.2	747.2	744.2	741.2	739.2	738.2	734.2	736.2	732.2	731.2	731.2
15°	725.2	719.2	714.2	712.2	712.2	710.2	707.2	711.2	709.2	710.2	715.2
17.5°	683.1	680.1	677.1	676.1	677.1	679.1	681.1	687.1	687.1	690.1	695.1
20°	646.1	644.1	646.1	646.1	647.1	651.1	655.1	660.1	662.1	665.1	672.1
22.5°	610.0	610.0	612.0	615.0	614.0	621.0	622.0	631.0	631.0	637.1	643.1
25°	575.0	575.0	577.0	578.0	580.0	584.0	588.0	595.0	597.0	603.0	608.0
27.5°	540.9	539.9	539.9	540.9	542.9	547.9	549.9	557.9	561.0	565.0	570.0
30°	502.9	501.9	503.9	505.9	504.9	509.9	512.9	518.9	520.9	524.9	528.9
32.5°	466.8	466.8	466.8	468.8	468.8	472.8	472.8	479.8	479.8	482.8	486.9
35°	429.8	429.8	430.8	431.8	432.8	433.8	434.8	438.8	439.8	440.8	442.8
37.5°	394.6	393.6	394.6	394.6	392.6	396.6	396.6	400.6	397.6	400.6	401.6
40°	358.6	358.6	357.6	357.6	357.6	359.6	357.6	360.6	358.6	360.6	359.6
42.5°	321.5	321.5	319.5	321.5	320.5	320.5	320.5	322.5	319.5	321.5	322.5
45°	284.5	283.5	283.5	282.5	282.5	282.5	283.5	283.5	282.5	284.5	284.5
47.5°	248.4	247.4	247.4	247.4	247.4	248.4	245.4	247.4	245.4	245.4	245.4
50°	217.4	216.4	215.4	214.4	213.4	213.4	212.4	212.4	210.4	209.4	208.4
52.5°	187.4	186.4	184.2	184.2	183.2	182.2	179.2	179.2	176.2	175.2	175.2
55°	160.2	157.2	156.2	154.2	154.2	152.2	150.2	148.2	145.2	143.2	143.2
57.5°	135.2	132.2	130.2	129.2	128.2	126.2	122.2	121.2	117.2	116.2	115.2
60°	113.2	110.1	107.1	105.1	104.1	101.1	97.1	95.1	93.1	90.1	87.1
62.5°	92.1	89.1	85.1	84.1	82.1	79.1	76.1	73.1	71.1	68.1	66.1
65°	74.1	71.1	68.1	66.1	64.1	61.1	58.1	55.1	53.1	52.1	51.1
67.5°	60.1	56.1	53.1	52.1	50.1	48.1	45.1	44.1	42.1	42.1	42.1
70°	47.1	44.1	41.1	40.1	39.1	37.0	35.0	35.0	35.0	35.0	35.0
72.5°	35.0	33.0	30.0	29.0	28.0	27.0	25.0	26.0	25.0	25.0	25.0
75°	22.0	20.0	18.0	17.0	16.0	15.0	14.0	13.0	12.0	11.0	11.0
77.5°	12.0	10.0	9.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0	5.0
80°	7.0	6.0	5.0	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0
82.5°	4.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
85°	2.0	2.0	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°	771.2	771.2	771.2	771.2	771.2	771.2	771.2	771.2
2.5°	765.2	768.2	765.2	768.2	768.2	768.2	768.2	765.2
5°	760.2	762.2	759.2	761.2	762.2	761.2	761.2	758.2
7.5°	751.2	753.2	750.2	753.2	754.2	753.2	752.2	750.2
10°	742.2	743.2	740.2	742.2	744.2	744.2	743.2	740.2
12.5°	728.2	731.2	728.2	730.2	732.2	733.2	733.2	730.2
15°	712.2	717.2	715.2	718.2	721.2	722.2	722.2	721.2
17.5°	696.1	701.1	698.1	703.1	706.1	708.2	709.2	707.2
20°	673.1	679.1	677.1	681.1	685.1	688.1	688.1	685.1
22.5°	643.1	651.1	650.1	653.1	658.1	659.1	661.1	659.1
25°	610.0	616.0	615.0	618.0	624.0	624.0	625.0	625.0
27.5°	572.0	578.0	577.0	579.0	583.0	584.0	585.0	583.0
30°	530.9	533.9	533.9	536.9	539.9	540.9	540.9	537.9
32.5°	485.9	489.9	491.9	490.9	493.9	495.9	494.9	494.9
35°	444.8	445.8	446.8	447.8	448.8	450.8	448.8	447.8
37.5°	400.6	403.6	401.6	403.6	405.6	404.6	403.6	403.6
40°	360.6	361.6	359.6	361.6	362.6	362.6	362.6	360.6
42.5°	320.5	322.5	320.5	322.5	322.5	322.5	322.5	321.5
45°	280.5	282.5	282.5	283.5	283.5	282.5	282.5	282.5
47.5°	243.4	245.4	243.4	245.4	246.4	244.4	244.4	244.4
50°	208.4	207.4	207.4	208.4	208.4	208.4	208.4	207.4
52.5°	172.2	173.2	173.2	173.2	174.2	173.2	174.2	174.2
55°	141.2	141.2	141.2	142.2	141.2	141.2	142.2	143.2
57.5°	113.2	112.2	111.1	111.1	112.2	111.1	111.1	111.1
60°	87.1	86.1	85.1	85.1	85.1	85.1	85.1	84.1
62.5°	65.1	65.1	65.1	66.1	66.1	66.1	66.1	67.1
65°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	53.1
67.5°	42.1	42.1	42.1	43.1	43.1	43.1	43.1	43.1
70°	35.0	35.0	36.0	35.0	36.0	36.0	36.0	36.0
72.5°	24.0	24.0	24.0	24.0	24.0	23.0	24.0	23.0
75°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)