

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: P252461

Luminaire Tested: **LE_6B15D010 EC6B10209035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

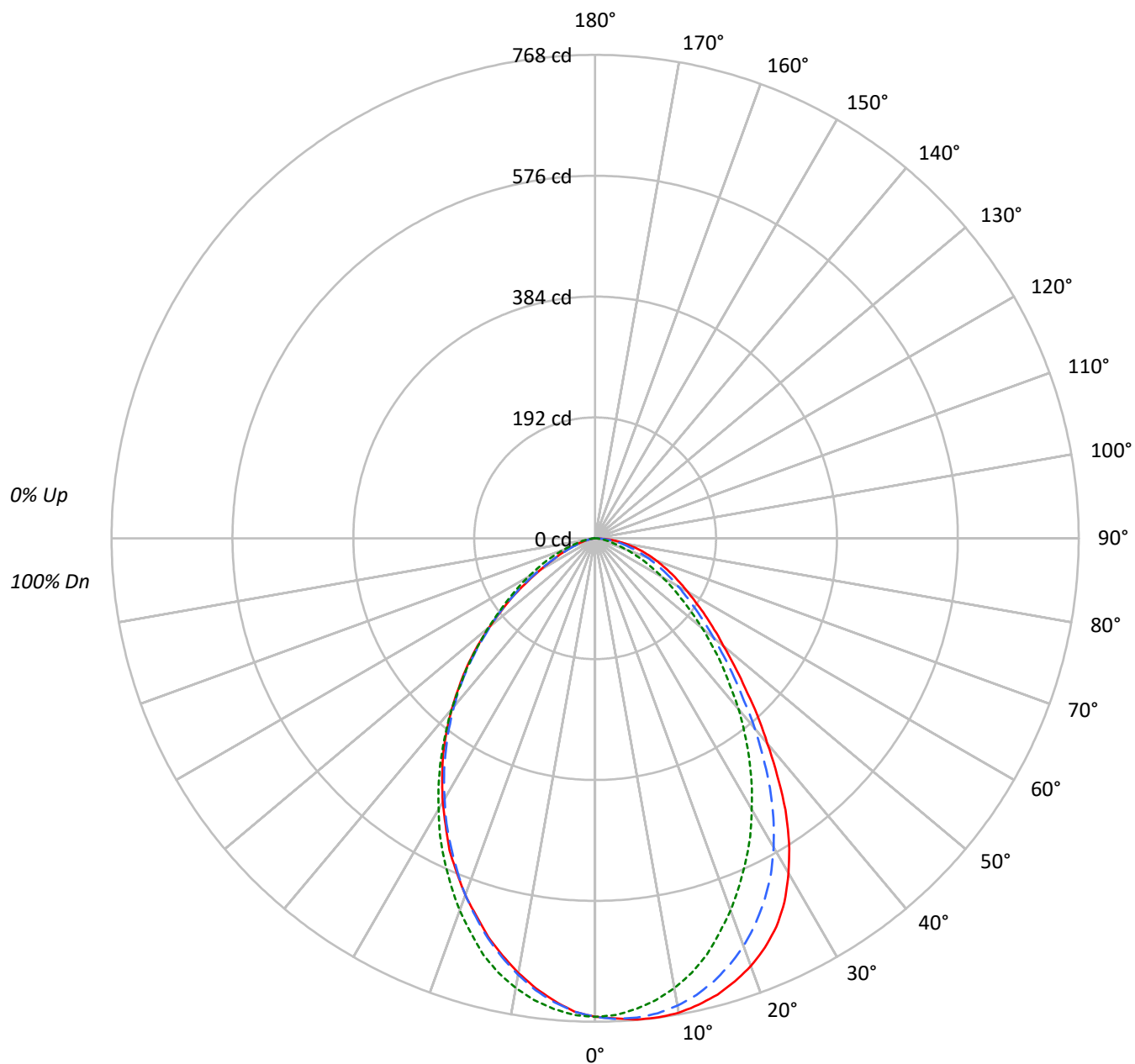
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	111	107	103	100	108	105	101	99		100	98	96		97	95	93		93	91	90
2	103	96	90	85	100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73	93	84	78	73		81	76	71		79	74	70		76	72	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	45
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	41
9	63	50	43	38	61	50	43	38		49	42	37		48	42	37		47	41	37
10	59	47	39	35	58	46	39	35		45	39	34		44	38	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49596	49596	49596
5°	50270	49157	48331
10°	50712	48056	46446
15°	50697	46280	44281
20°	50210	43684	41858
25°	49022	40736	39369
30°	46292	37456	36431
35°	41964	33968	33546
40°	36238	30217	30132
45°	31075	26305	26489
50°	27008	22512	22177
55°	24250	18984	17767
60°	22038	15984	13074
65°	20701	13199	9602
70°	19743	10281	7058
75°	18905	7461	4789
80°	17846	5185	3193
85°	15794	3144	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	5.3
10°-20°	194.8	14.5
20°-30°	270.4	20.1
30°-40°	280.1	20.8
40°-50°	230.1	17.1
50°-60°	158.2	11.7
60°-70°	90.9	6.7
70°-80°	41.8	3.1
80°-90°	10.2	0.8
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°	536.2	39.8
0°-40°	816.3	60.6
0°-60°	1204.6	89.4
0°-90°	1347.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	760	760	760	760	760	
5°	768	764	751	740	738	73
15°	751	728	685	658	656	211
25°	681	636	566	542	547	312
35°	527	484	426	414	421	327
45°	337	312	285	282	287	262
55°	213	193	167	157	156	192
65°	134	117	86	60	62	133
75°	75	59	30	19	19	79
85°	21	15	4	2	2	24
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°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2
2.5°	763.4	769.8	765.5	764.4	766.5	766.5	766.5	763.4	765.5	762.2	764.4
5°	767.6	772.9	768.6	766.5	768.6	769.8	766.5	764.4	767.6	763.4	764.4
7.5°	767.6	772.9	768.6	767.6	768.6	768.6	767.6	763.4	765.5	761.2	761.2
10°	765.5	769.8	765.5	763.4	764.4	763.4	763.4	758.1	759.1	753.9	753.9
12.5°	759.1	764.4	759.1	757.0	757.0	757.0	753.9	749.6	750.6	744.4	743.2
15°	750.6	754.9	749.6	747.5	747.5	746.5	744.4	738.0	738.0	731.6	728.5
17.5°	738.0	742.2	738.0	734.9	733.8	731.6	729.6	723.2	721.1	713.8	710.6
20°	723.2	726.4	722.1	719.0	716.9	714.8	710.6	704.2	702.1	694.8	689.5
22.5°	704.2	708.5	702.1	699.0	696.9	693.6	689.5	683.1	680.0	670.5	664.1
25°	681.0	683.1	677.9	674.6	670.5	668.4	665.1	656.8	653.5	643.0	635.6
27.5°	651.5	653.5	647.2	645.1	639.9	637.8	633.5	626.1	621.9	611.4	603.9
30°	614.5	616.6	612.4	609.2	605.0	600.8	597.6	590.2	583.9	573.2	567.0
32.5°	573.2	576.5	572.2	568.0	560.6	561.8	556.4	549.0	543.8	534.2	526.9
35°	526.9	529.0	523.6	522.6	518.4	514.1	508.9	503.6	500.5	489.9	483.6
37.5°	475.1	480.4	475.1	470.9	468.8	465.6	462.5	455.0	453.0	446.6	438.1
40°	425.5	428.6	425.5	421.2	418.1	418.1	413.9	409.6	404.4	398.0	394.9
42.5°	381.1	379.0	378.0	375.9	371.6	370.6	369.5	364.2	361.1	354.8	349.5
45°	336.8	337.9	335.8	334.8	331.5	329.4	327.2	323.1	322.0	315.8	311.5
47.5°	299.9	298.8	296.6	296.6	294.6	292.5	290.4	287.1	286.1	280.9	276.6
50°	266.1	267.1	266.1	265.0	261.9	260.8	258.6	256.6	254.5	249.1	245.0
52.5°	238.6	237.5	236.5	236.5	233.4	232.2	230.1	228.0	226.0	220.6	217.5
55°	213.2	213.2	212.2	211.1	208.0	207.0	205.9	203.8	200.6	196.4	193.2
57.5°	190.0	190.0	189.0	187.9	185.9	185.9	183.8	181.6	179.5	175.2	171.0
60°	168.9	170.0	168.9	167.9	165.8	165.8	164.8	161.5	160.5	155.2	152.0
62.5°	151.0	151.0	151.0	149.9	148.9	146.8	146.8	143.6	141.5	138.2	134.1
65°	134.1	134.1	134.1	133.0	130.9	129.9	128.8	126.8	124.6	121.4	117.2
67.5°	118.2	118.2	118.2	117.2	115.1	114.0	113.0	111.9	108.8	105.6	101.4
70°	103.5	103.5	102.4	101.4	100.2	99.2	98.2	96.1	94.0	89.8	86.6
72.5°	88.8	88.8	88.8	86.6	85.5	85.5	83.4	82.4	80.2	76.0	72.9
75°	75.0	73.9	73.9	72.9	71.8	70.8	69.6	68.6	65.5	63.4	59.1
77.5°	61.2	61.2	60.1	59.1	59.1	58.1	57.0	54.9	53.9	50.6	47.5
80°	47.5	47.5	47.5	47.5	46.5	45.4	45.4	43.2	42.2	39.1	37.0
82.5°	35.9	34.9	34.9	34.9	33.8	32.8	32.8	31.6	30.6	28.5	26.4
85°	21.1	20.0	20.0	20.0	19.0	19.0	18.0	18.0	16.9	14.8	14.8
87.5°	6.4	6.4	7.4	7.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2
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°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2
2.5°	762.2	765.5	761.2	760.2	764.4	762.2	761.2	759.1	760.2	758.1	754.9
5°	761.2	765.5	760.2	757.0	762.2	759.1	757.0	754.9	754.9	750.6	748.6
7.5°	758.1	760.2	754.9	751.8	754.9	751.8	749.6	746.5	745.4	740.1	737.0
10°	749.6	751.8	745.4	741.1	744.4	740.1	737.0	733.8	731.6	725.4	721.1
12.5°	738.0	739.1	731.6	726.4	728.5	725.4	720.1	715.9	713.8	707.4	702.1
15°	722.1	723.2	714.8	707.4	709.5	705.2	699.0	694.8	691.5	685.2	677.9
17.5°	703.1	702.1	692.6	685.2	686.2	681.0	674.6	668.4	664.1	656.8	651.5
20°	682.0	678.9	668.4	659.9	661.0	654.6	647.2	640.9	635.6	629.2	621.9
22.5°	655.6	651.5	642.0	631.4	632.4	627.1	616.6	611.4	606.0	597.6	591.2
25°	627.1	620.9	611.4	600.8	600.8	594.4	586.0	579.6	574.4	565.9	558.5
27.5°	593.4	590.2	577.5	569.1	568.0	561.8	554.2	546.9	540.6	533.2	525.8
30°	556.4	551.1	541.6	532.1	530.0	524.8	517.4	508.9	504.6	497.2	491.0
32.5°	517.4	512.1	501.5	492.0	491.0	486.8	480.4	472.0	467.8	462.5	458.2
35°	473.0	470.9	460.4	453.0	453.0	448.8	442.4	435.0	431.9	426.5	421.2
37.5°	430.8	427.6	418.1	411.8	411.8	406.5	400.1	397.0	393.9	389.6	386.4
40°	386.4	384.4	376.9	370.6	371.6	367.4	363.2	359.0	356.9	354.8	351.6
42.5°	345.2	343.1	337.9	332.6	332.6	329.4	325.2	322.0	319.9	316.8	315.8
45°	308.2	305.1	300.9	295.6	295.6	292.5	290.4	288.2	287.1	285.1	281.9
47.5°	272.4	270.2	266.1	260.8	260.8	260.8	256.6	253.4	253.4	251.2	250.2
50°	241.8	238.6	235.5	231.2	231.2	229.1	226.0	222.8	222.8	221.8	219.6
52.5°	213.2	211.1	207.0	202.8	202.8	200.6	197.5	196.4	195.4	192.1	191.1
55°	189.0	186.9	183.8	178.4	177.4	176.4	173.1	171.0	170.0	166.9	166.9
57.5°	166.9	164.8	159.4	156.2	155.2	153.1	149.9	147.9	146.8	144.6	142.5
60°	147.9	144.6	140.4	136.2	135.1	133.0	129.9	127.8	126.8	122.5	120.4
62.5°	129.9	126.8	122.5	118.2	117.2	115.1	110.9	108.8	106.6	102.4	100.2
65°	113.0	109.8	105.6	101.4	99.2	98.2	94.0	90.8	88.8	85.5	81.2
67.5°	97.1	94.0	89.8	84.5	84.5	81.2	78.1	75.0	71.8	68.6	65.5
70°	82.4	79.1	75.0	70.8	69.6	67.6	64.4	60.1	58.1	53.9	50.6
72.5°	68.6	65.5	61.2	57.0	56.0	53.9	50.6	46.5	43.2	40.1	37.0
75°	56.0	52.8	48.6	45.4	44.4	42.2	39.1	34.9	31.6	29.6	26.4
77.5°	44.4	41.1	38.0	34.9	33.8	31.6	28.5	26.4	23.2	21.1	18.0
80°	33.8	31.6	28.5	26.4	25.4	23.2	21.1	18.0	15.9	13.8	12.6
82.5°	24.2	22.1	20.0	16.9	16.9	14.8	13.8	11.6	9.5	8.5	7.4
85°	13.8	11.6	10.5	9.5	8.5	8.5	7.4	6.4	5.2	4.2	4.2
87.5°	4.2	4.2	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2
2.5°	754.9	756.0	753.9	756.0	753.9	754.9	752.8	754.9	752.8	754.9	750.6
5°	747.5	747.5	744.4	746.5	744.4	745.4	741.1	742.2	740.1	742.2	738.0
7.5°	734.9	735.9	730.6	732.8	729.6	729.6	726.4	727.5	724.2	725.4	722.1
10°	720.1	719.0	713.8	715.9	711.6	711.6	708.5	708.5	704.2	705.2	701.1
12.5°	699.0	697.9	691.5	693.6	689.5	689.5	686.2	686.2	682.0	684.1	680.0
15°	674.6	673.6	667.2	668.4	664.1	664.1	659.9	661.0	657.8	659.9	655.6
17.5°	647.2	646.1	639.9	640.9	635.6	636.6	633.5	632.4	630.4	631.4	628.2
20°	618.8	616.6	610.2	611.4	609.2	606.0	603.9	605.0	602.9	605.0	601.9
22.5°	589.1	584.9	579.6	579.6	577.5	577.5	574.4	576.5	572.2	575.4	573.2
25°	555.4	552.2	548.0	550.1	545.9	545.9	542.8	543.8	541.6	543.8	541.6
27.5°	522.6	520.5	514.1	516.2	513.1	514.1	511.0	512.1	511.0	513.1	511.0
30°	487.8	486.8	482.5	482.5	481.5	480.4	479.4	479.4	478.2	481.5	479.4
32.5°	455.0	451.9	447.6	450.9	445.5	448.8	446.6	448.8	446.6	448.8	447.6
35°	421.2	420.2	414.9	416.0	414.9	414.9	413.9	413.9	413.9	417.0	417.0
37.5°	385.4	384.4	381.1	382.2	380.1	379.0	379.0	381.1	381.1	383.2	383.2
40°	350.5	351.6	348.4	348.4	347.4	347.4	347.4	349.5	348.4	350.5	349.5
42.5°	315.8	315.8	312.5	313.6	312.5	313.6	313.6	315.8	315.8	316.8	315.8
45°	283.0	283.0	281.9	283.0	280.9	281.9	280.9	283.0	281.9	283.0	283.0
47.5°	250.2	250.2	250.2	249.1	249.1	249.1	249.1	249.1	248.1	250.2	249.1
50°	219.6	220.6	219.6	219.6	218.5	219.6	218.5	218.5	216.5	217.5	217.5
52.5°	192.1	192.1	190.0	190.0	190.0	189.0	189.0	189.0	187.9	187.9	185.9
55°	165.8	165.8	163.6	163.6	162.6	161.5	160.5	160.5	157.4	157.4	154.1
57.5°	141.5	140.4	137.2	137.2	135.1	134.1	133.0	132.0	129.9	127.8	126.8
60°	119.2	117.2	115.1	114.0	111.9	109.8	107.8	105.6	103.5	102.4	101.4
62.5°	98.2	95.0	92.9	91.9	89.8	86.6	84.5	82.4	80.2	79.1	77.1
65°	79.1	76.0	72.9	71.8	69.6	67.6	64.4	62.2	60.1	59.1	59.1
67.5°	62.2	59.1	54.9	54.9	52.8	50.6	48.6	46.5	45.4	46.5	46.5
70°	46.5	44.4	41.1	40.1	38.0	35.9	34.9	34.9	34.9	35.9	34.9
72.5°	34.9	31.6	29.6	28.5	27.5	26.4	26.4	26.4	25.4	26.4	26.4
75°	24.2	22.1	20.0	20.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	16.9	14.8	13.8	13.8	13.8	12.6	12.6	12.6	12.6	12.6	12.6
80°	10.5	10.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	6.4	6.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2
2.5°	750.6	753.9	749.6	752.8	751.8	750.6	748.6	752.8
5°	738.0	739.1	734.9	739.1	738.0	735.9	733.8	738.0
7.5°	720.1	723.2	718.0	722.1	721.1	719.0	716.9	721.1
10°	700.0	703.1	699.0	702.1	702.1	700.0	696.9	701.1
12.5°	677.9	680.0	675.8	680.0	678.9	676.8	675.8	678.9
15°	653.5	656.8	652.5	655.6	654.6	653.5	652.5	655.6
17.5°	627.1	630.4	627.1	630.4	630.4	627.1	626.1	628.2
20°	600.8	602.9	599.8	602.9	601.9	601.9	599.8	602.9
22.5°	571.2	574.4	572.2	574.4	573.2	573.2	572.2	574.4
25°	541.6	544.8	541.6	544.8	543.8	543.8	541.6	546.9
27.5°	512.1	514.1	511.0	515.2	514.1	512.1	513.1	514.1
30°	480.4	482.5	480.4	483.6	483.6	483.6	481.5	483.6
32.5°	448.8	451.9	448.8	451.9	450.9	450.9	449.8	451.9
35°	417.0	418.1	416.0	419.1	419.1	420.2	418.1	421.2
37.5°	384.4	385.4	384.4	385.4	387.5	384.4	386.4	387.5
40°	350.5	352.6	351.6	352.6	352.6	353.8	352.6	353.8
42.5°	316.8	318.9	316.8	319.9	318.9	318.9	319.9	319.9
45°	281.9	285.1	283.0	285.1	286.1	285.1	285.1	287.1
47.5°	249.1	251.2	250.2	251.2	251.2	251.2	251.2	253.4
50°	216.5	217.5	217.5	218.5	218.5	219.6	217.5	218.5
52.5°	183.8	185.9	185.9	185.9	184.8	185.9	185.9	185.9
55°	154.1	155.2	153.1	155.2	155.2	154.1	154.1	156.2
57.5°	125.6	125.6	125.6	125.6	125.6	124.6	125.6	125.6
60°	99.2	100.2	99.2	99.2	99.2	99.2	98.2	100.2
62.5°	77.1	77.1	76.0	77.1	77.1	77.1	78.1	78.1
65°	60.1	61.2	60.1	61.2	61.2	61.2	61.2	62.2
67.5°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
70°	35.9	35.9	35.9	37.0	35.9	35.9	35.9	37.0
72.5°	26.4	26.4	26.4	26.4	26.4	26.4	27.5	27.5
75°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	12.6	12.6	12.6	13.8	12.6	13.8	12.6	12.6
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)