

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: io LED

Report Number: P252456

Luminaire Tested: **LD6B15D010 EU6B10208040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252456
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: io LED
Catalog Number: LD6B15D010 EU6B10208040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

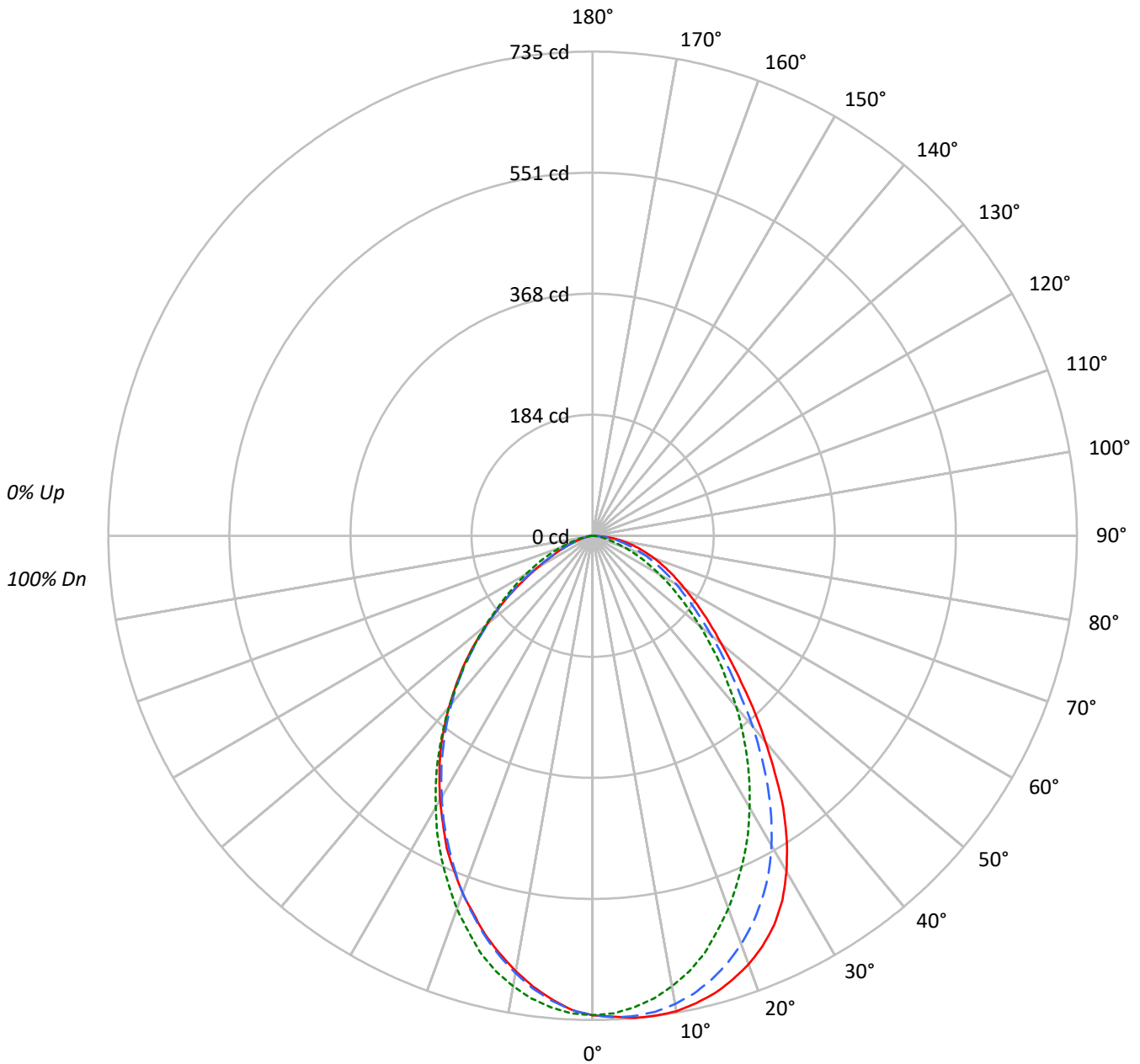
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47482	47482	47482
5°	48122	47068	46269
10°	48546	46002	44458
15°	48542	44308	42396
20°	48072	41823	40067
25°	46927	39002	37691
30°	44319	35866	34872
35°	40172	32519	32120
40°	34688	28922	28837
45°	29746	25179	25363
50°	25851	21548	21233
55°	23226	18165	17016
60°	21099	15292	12526
65°	19821	12643	9201
70°	18903	9824	6753
75°	18099	7134	4588
80°	17095	4922	3043
85°	15121	2994	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	5.3
10°-20°	186.4	14.5
20°-30°	258.8	20.1
30°-40°	268.1	20.8
40°-50°	220.3	17.1
50°-60°	151.4	11.7
60°-70°	87.0	6.7
70°-80°	40.0	3.1
80°-90°	9.7	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°	513.4	39.8
0°-40°	781.5	60.6
0°-60°	1153.2	89.4
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	728	728	728	728	728	
5°	735	732	719	708	706	70
15°	719	697	656	630	628	202
25°	652	608	542	518	524	298
35°	504	463	408	396	403	313
45°	322	298	273	270	275	251
55°	204	185	160	151	150	184
65°	128	112	82	58	60	128
75°	72	57	28	18	18	76
85°	20	14	4	2	2	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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	730.8	736.8	732.8	731.8	733.8	733.8	733.8	730.8	732.8	729.8	731.8
5°	734.8	739.9	735.8	733.8	735.8	736.8	733.8	731.8	734.8	730.8	731.8
7.5°	734.8	739.9	735.8	734.8	735.8	735.8	734.8	730.8	732.8	728.8	728.8
10°	732.8	736.8	732.8	730.8	731.8	730.8	730.8	725.7	726.7	721.7	721.7
12.5°	726.7	731.8	726.7	724.7	724.7	724.7	721.7	717.6	718.7	712.6	711.6
15°	718.7	722.7	717.6	715.6	715.6	714.6	712.6	706.5	706.5	700.5	697.4
17.5°	706.5	710.6	706.5	703.5	702.5	700.5	698.4	692.4	690.4	683.3	680.2
20°	692.4	695.4	691.4	688.3	686.3	684.3	680.2	674.2	672.2	665.1	660.0
22.5°	674.2	678.2	672.2	669.1	667.1	664.1	660.0	654.0	650.9	641.8	635.8
25°	651.9	654.0	648.9	645.9	641.8	639.8	636.8	628.7	625.7	615.6	608.5
27.5°	623.6	625.7	619.6	617.6	612.5	610.5	606.5	599.4	595.3	585.2	578.2
30°	588.3	590.3	586.2	583.2	579.2	575.1	572.1	565.0	559.0	548.8	542.8
32.5°	548.8	551.9	547.8	543.8	536.7	537.7	532.7	525.6	520.5	511.4	504.4
35°	504.4	506.4	501.3	500.3	496.3	492.2	487.2	482.1	479.1	469.0	462.9
37.5°	454.8	459.9	454.8	450.8	448.8	445.7	442.7	435.6	433.6	427.6	419.5
40°	407.3	410.4	407.3	403.3	400.3	400.3	396.2	392.2	387.1	381.1	378.0
42.5°	364.9	362.9	361.9	359.8	355.8	354.8	353.8	348.7	345.7	339.6	334.6
45°	322.4	323.4	321.4	320.4	317.4	315.4	313.3	309.3	308.3	302.2	298.2
47.5°	287.1	286.0	284.0	284.0	282.0	280.0	278.0	274.9	273.9	268.9	264.8
50°	254.7	255.7	254.7	253.7	250.7	249.7	247.6	245.6	243.6	238.5	234.5
52.5°	228.4	227.4	226.4	226.4	223.4	222.4	220.3	218.3	216.3	211.2	208.2
55°	204.2	204.2	203.2	202.2	199.1	198.1	197.1	195.1	192.0	188.0	185.0
57.5°	181.9	181.9	180.9	179.9	177.9	177.9	175.9	173.9	171.8	167.8	163.7
60°	161.7	162.7	161.7	160.7	158.7	158.7	157.7	154.6	153.6	148.6	145.6
62.5°	144.5	144.5	144.5	143.5	142.5	140.5	140.5	137.5	135.4	132.4	128.4
65°	128.4	128.4	128.4	127.4	125.3	124.3	123.3	121.3	119.3	116.2	112.2
67.5°	113.2	113.2	113.2	112.2	110.2	109.2	108.2	107.1	104.1	101.1	97.0
70°	99.1	99.1	98.0	97.0	96.0	95.0	94.0	92.0	90.0	85.9	82.9
72.5°	84.9	84.9	84.9	82.9	81.9	81.9	79.9	78.8	76.8	72.8	69.7
75°	71.8	70.8	70.8	69.7	68.7	67.7	66.7	65.7	62.7	60.6	56.6
77.5°	58.6	58.6	57.6	56.6	56.6	55.6	54.6	52.6	51.5	48.5	45.5
80°	45.5	45.5	45.5	45.5	44.5	43.5	43.5	41.4	40.4	37.4	35.4
82.5°	34.4	33.4	33.4	33.4	32.3	31.3	31.3	30.3	29.3	27.3	25.3
85°	20.2	19.2	19.2	19.2	18.2	18.2	17.2	17.2	16.2	14.2	14.2
87.5°	6.1	6.1	7.1	7.1	6.1	6.1	6.1	6.1	6.1	5.1	5.1
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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	729.8	732.8	728.8	727.8	731.8	729.8	728.8	726.7	727.8	725.7	722.7
5°	728.8	732.8	727.8	724.7	729.8	726.7	724.7	722.7	722.7	718.7	716.6
7.5°	725.7	727.8	722.7	719.7	722.7	719.7	717.6	714.6	713.6	708.5	705.5
10°	717.6	719.7	713.6	709.6	712.6	708.5	705.5	702.5	700.5	694.4	690.4
12.5°	706.5	707.5	700.5	695.4	697.4	694.4	689.3	685.3	683.3	677.2	672.2
15°	691.4	692.4	684.3	677.2	679.2	675.2	669.1	665.1	662.1	656.0	648.9
17.5°	673.2	672.2	663.1	656.0	657.0	651.9	645.9	639.8	635.8	628.7	623.6
20°	653.0	649.9	639.8	631.7	632.7	626.7	619.6	613.5	608.5	602.4	595.3
22.5°	627.7	623.6	614.5	604.4	605.4	600.4	590.3	585.2	580.2	572.1	566.0
25°	600.4	594.3	585.2	575.1	575.1	569.1	561.0	554.9	549.9	541.8	534.7
27.5°	568.1	565.0	552.9	544.8	543.8	537.7	530.7	523.6	517.5	510.4	503.4
30°	532.7	527.6	518.5	509.4	507.4	502.4	495.3	487.2	483.1	476.1	470.0
32.5°	495.3	490.2	480.1	471.0	470.0	466.0	459.9	451.8	447.8	442.7	438.7
35°	452.8	450.8	440.7	433.6	433.6	429.6	423.5	416.4	413.4	408.3	403.3
37.5°	412.4	409.4	400.3	394.2	394.2	389.1	383.1	380.0	377.0	373.0	369.9
40°	369.9	367.9	360.8	354.8	355.8	351.7	347.7	343.7	341.6	339.6	336.6
42.5°	330.5	328.5	323.4	318.4	318.4	315.4	311.3	308.3	306.3	303.2	302.2
45°	295.1	292.1	288.1	283.0	283.0	280.0	278.0	275.9	274.9	272.9	269.9
47.5°	260.8	258.8	254.7	249.7	249.7	249.7	245.6	242.6	242.6	240.6	239.6
50°	231.5	228.4	225.4	221.4	221.4	219.3	216.3	213.3	213.3	212.3	210.2
52.5°	204.2	202.2	198.1	194.1	194.1	192.0	189.0	188.0	187.0	184.0	182.9
55°	180.9	178.9	175.9	170.8	169.8	168.8	165.8	163.7	162.7	159.7	159.7
57.5°	159.7	157.7	152.6	149.6	148.6	146.6	143.5	141.5	140.5	138.5	136.5
60°	141.5	138.5	134.4	130.4	129.4	127.4	124.3	122.3	121.3	117.2	115.2
62.5°	124.3	121.3	117.2	113.2	112.2	110.2	106.1	104.1	102.1	98.0	96.0
65°	108.2	105.1	101.1	97.0	95.0	94.0	90.0	86.9	84.9	81.9	77.8
67.5°	93.0	90.0	85.9	80.9	80.9	77.8	74.8	71.8	68.7	65.7	62.7
70°	78.8	75.8	71.8	67.7	66.7	64.7	61.7	57.6	55.6	51.5	48.5
72.5°	65.7	62.7	58.6	54.6	53.6	51.5	48.5	44.5	41.4	38.4	35.4
75°	53.6	50.5	46.5	43.5	42.5	40.4	37.4	33.4	30.3	28.3	25.3
77.5°	42.5	39.4	36.4	33.4	32.3	30.3	27.3	25.3	22.2	20.2	17.2
80°	32.3	30.3	27.3	25.3	24.3	22.2	20.2	17.2	15.2	13.1	12.1
82.5°	23.2	21.2	19.2	16.2	16.2	14.2	13.1	11.1	9.1	8.1	7.1
85°	13.1	11.1	10.1	9.1	8.1	8.1	7.1	6.1	5.1	4.0	4.0
87.5°	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0
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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	722.7	723.7	721.7	723.7	721.7	722.7	720.7	722.7	720.7	722.7	718.7
5°	715.6	715.6	712.6	714.6	712.6	713.6	709.6	710.6	708.5	710.6	706.5
7.5°	703.5	704.5	699.4	701.5	698.4	698.4	695.4	696.4	693.4	694.4	691.4
10°	689.3	688.3	683.3	685.3	681.3	681.3	678.2	678.2	674.2	675.2	671.1
12.5°	669.1	668.1	662.1	664.1	660.0	660.0	657.0	657.0	653.0	655.0	650.9
15°	645.9	644.9	638.8	639.8	635.8	635.8	631.7	632.7	629.7	631.7	627.7
17.5°	619.6	618.6	612.5	613.5	608.5	609.5	606.5	605.4	603.4	604.4	601.4
20°	592.3	590.3	584.2	585.2	583.2	580.2	578.2	579.2	577.1	579.2	576.1
22.5°	564.0	560.0	554.9	554.9	552.9	552.9	549.9	551.9	547.8	550.9	548.8
25°	531.7	528.6	524.6	526.6	522.6	522.6	519.5	520.5	518.5	520.5	518.5
27.5°	500.3	498.3	492.2	494.3	491.2	492.2	489.2	490.2	489.2	491.2	489.2
30°	467.0	466.0	461.9	461.9	460.9	459.9	458.9	458.9	457.9	460.9	458.9
32.5°	435.6	432.6	428.6	431.6	426.5	429.6	427.6	429.6	427.6	429.6	428.6
35°	403.3	402.3	397.2	398.2	397.2	397.2	396.2	396.2	396.2	399.3	399.3
37.5°	368.9	367.9	364.9	365.9	363.9	362.9	362.9	364.9	364.9	366.9	366.9
40°	335.6	336.6	333.6	333.6	332.5	332.5	332.5	334.6	333.6	335.6	334.6
42.5°	302.2	302.2	299.2	300.2	299.2	300.2	300.2	302.2	302.2	303.2	302.2
45°	270.9	270.9	269.9	270.9	268.9	269.9	268.9	270.9	269.9	270.9	270.9
47.5°	239.6	239.6	239.6	238.5	238.5	238.5	238.5	238.5	237.5	239.6	238.5
50°	210.2	211.2	210.2	210.2	209.2	210.2	209.2	209.2	207.2	208.2	208.2
52.5°	184.0	184.0	181.9	181.9	181.9	180.9	180.9	180.9	179.9	179.9	177.9
55°	158.7	158.7	156.7	156.7	155.7	154.6	153.6	153.6	150.6	150.6	147.6
57.5°	135.4	134.4	131.4	131.4	129.4	128.4	127.4	126.3	124.3	122.3	121.3
60°	114.2	112.2	110.2	109.2	107.1	105.1	103.1	101.1	99.1	98.0	97.0
62.5°	94.0	91.0	88.9	87.9	85.9	82.9	80.9	78.8	76.8	75.8	73.8
65°	75.8	72.8	69.7	68.7	66.7	64.7	61.7	59.6	57.6	56.6	56.6
67.5°	59.6	56.6	52.6	52.6	50.5	48.5	46.5	44.5	43.5	44.5	44.5
70°	44.5	42.5	39.4	38.4	36.4	34.4	33.4	33.4	33.4	34.4	33.4
72.5°	33.4	30.3	28.3	27.3	26.3	25.3	25.3	25.3	24.3	25.3	25.3
75°	23.2	21.2	19.2	19.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	16.2	14.2	13.1	13.1	13.1	12.1	12.1	12.1	12.1	12.1	12.1
80°	10.1	10.1	9.1	9.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	718.7	721.7	717.6	720.7	719.7	718.7	716.6	720.7
5°	706.5	707.5	703.5	707.5	706.5	704.5	702.5	706.5
7.5°	689.3	692.4	687.3	691.4	690.4	688.3	686.3	690.4
10°	670.1	673.2	669.1	672.2	672.2	670.1	667.1	671.1
12.5°	648.9	650.9	646.9	650.9	649.9	647.9	646.9	649.9
15°	625.7	628.7	624.7	627.7	626.7	625.7	624.7	627.7
17.5°	600.4	603.4	600.4	603.4	603.4	600.4	599.4	601.4
20°	575.1	577.1	574.1	577.1	576.1	576.1	574.1	577.1
22.5°	546.8	549.9	547.8	549.9	548.8	548.8	547.8	549.9
25°	518.5	521.6	518.5	521.6	520.5	520.5	518.5	523.6
27.5°	490.2	492.2	489.2	493.3	492.2	490.2	491.2	492.2
30°	459.9	461.9	459.9	462.9	462.9	462.9	460.9	462.9
32.5°	429.6	432.6	429.6	432.6	431.6	431.6	430.6	432.6
35°	399.3	400.3	398.2	401.3	401.3	402.3	400.3	403.3
37.5°	367.9	368.9	367.9	368.9	371.0	367.9	369.9	371.0
40°	335.6	337.6	336.6	337.6	337.6	338.6	337.6	338.6
42.5°	303.2	305.3	303.2	306.3	305.3	305.3	306.3	306.3
45°	269.9	272.9	270.9	272.9	273.9	272.9	272.9	274.9
47.5°	238.5	240.6	239.6	240.6	240.6	240.6	240.6	242.6
50°	207.2	208.2	208.2	209.2	209.2	210.2	208.2	209.2
52.5°	175.9	177.9	177.9	177.9	176.9	177.9	177.9	177.9
55°	147.6	148.6	146.6	148.6	148.6	147.6	147.6	149.6
57.5°	120.3	120.3	120.3	120.3	120.3	119.3	120.3	120.3
60°	95.0	96.0	95.0	95.0	95.0	95.0	94.0	96.0
62.5°	73.8	73.8	72.8	73.8	73.8	73.8	74.8	74.8
65°	57.6	58.6	57.6	58.6	58.6	58.6	58.6	59.6
67.5°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
70°	34.4	34.4	34.4	35.4	34.4	34.4	34.4	35.4
72.5°	25.3	25.3	25.3	25.3	25.3	25.3	26.3	26.3
75°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	12.1	12.1	12.1	13.1	12.1	13.1	12.1	12.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)