

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: P252349

Luminaire Tested: **LD6B15D010 EU6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252349
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: io LED
Catalog Number: LD6B15D010 EU6B10208027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1269.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

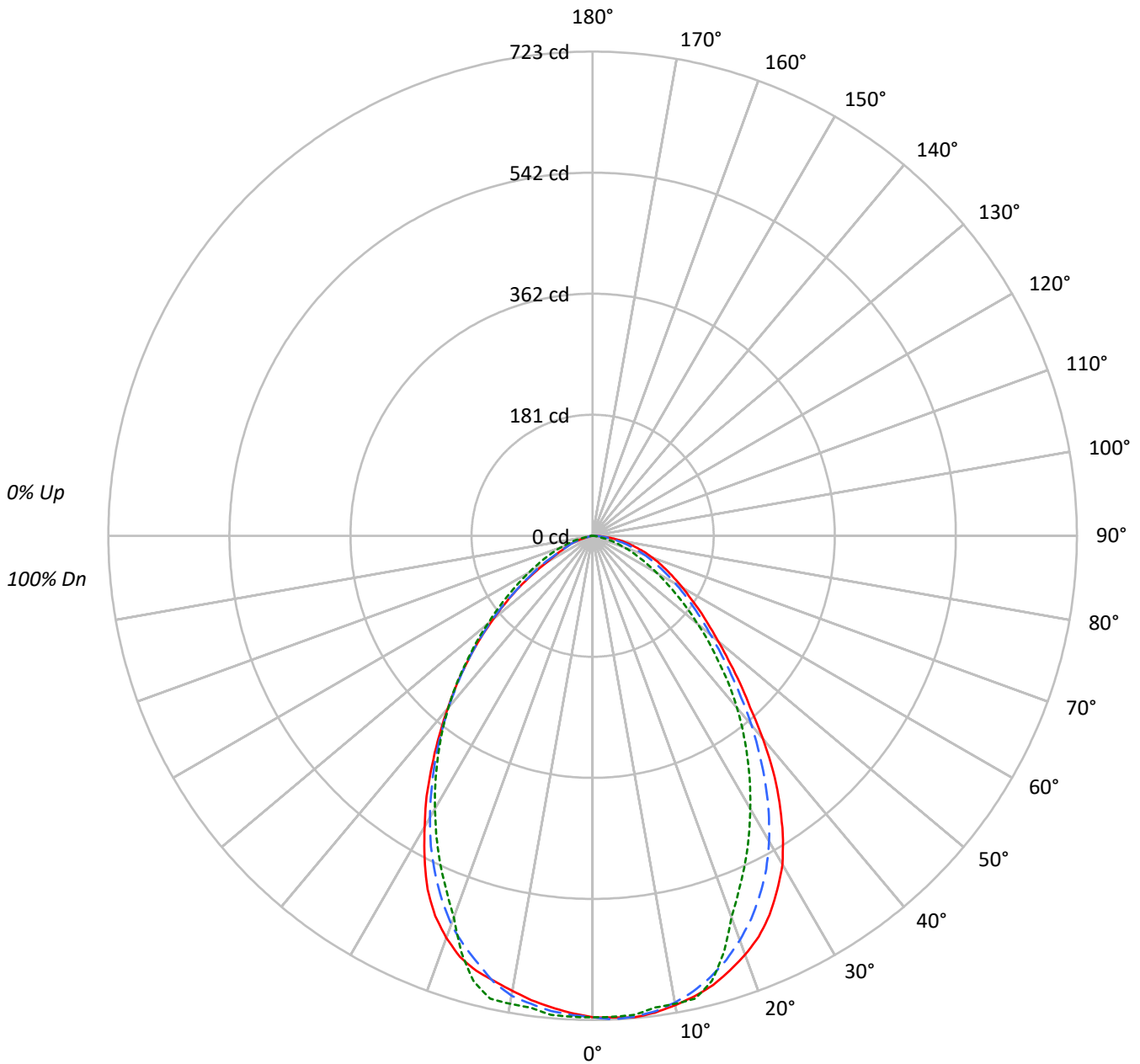
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	46908	46908	46908
5°	47271	47028	46295
10°	47141	47016	45717
15°	46921	46482	45409
20°	46225	42073	44343
25°	44969	38786	41946
30°	42699	35452	37780
35°	38747	32057	33243
40°	33640	28548	28633
45°	28694	24551	24293
50°	24836	20756	19619
55°	22203	17312	15185
60°	20225	14379	10230
65°	18880	11825	7641
70°	17988	9614	6409
75°	16939	6831	2117
80°	16155	3494	714
85°	13249	2096	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	5.4
10°-20°	189.9	15.0
20°-30°	262.1	20.7
30°-40°	266.7	21.0
40°-50°	214.4	16.9
50°-60°	142.5	11.2
60°-70°	81.2	6.4
70°-80°	36.5	2.9
80°-90°	7.7	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°	519.9	41.0
0°-40°	786.7	62.0
0°-60°	1143.6	90.1
0°-90°	1269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	722	721	718	712	707	69
15°	695	682	688	661	672	196
25°	625	591	539	556	583	286
35°	486	449	402	410	417	302
45°	311	292	266	263	263	241
55°	195	182	152	135	134	175
65°	122	109	77	50	50	122
75°	67	56	27	11	8	72
85°	18	12	3	1	0	21
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	720.0	723.7	722.8	721.8	722.8	721.8	720.0	720.0	718.1	718.1	722.8
5°	721.8	723.7	722.8	721.8	721.8	722.8	719.0	719.0	717.2	716.2	720.9
7.5°	718.1	720.9	719.0	719.0	718.1	719.0	715.3	715.3	712.5	711.6	716.2
10°	711.6	715.3	713.4	713.4	713.4	711.6	709.7	708.8	706.0	705.0	707.8
12.5°	704.1	706.9	706.0	704.1	704.1	704.1	700.4	699.4	695.7	693.8	696.6
15°	694.7	696.6	695.7	694.7	692.9	692.9	689.1	687.3	683.5	679.8	681.7
17.5°	680.7	683.5	681.7	680.7	677.9	677.9	674.2	672.3	666.7	663.0	663.9
20°	665.8	666.7	665.8	663.9	661.1	660.2	656.5	652.7	648.1	643.4	642.5
22.5°	648.1	649.0	646.2	644.3	641.5	640.6	635.9	633.1	625.6	620.0	619.1
25°	624.7	625.6	625.6	621.0	619.1	617.2	612.6	607.9	601.4	593.9	591.1
27.5°	596.7	599.5	597.6	593.0	589.2	588.3	583.6	579.9	571.5	564.9	561.2
30°	566.8	565.9	564.9	562.1	556.5	555.6	550.9	546.3	539.7	531.3	526.7
32.5°	528.5	528.5	527.6	524.8	519.2	517.3	513.6	508.0	500.5	494.0	489.3
35°	486.5	487.4	486.5	480.9	477.2	475.3	473.4	466.9	460.4	452.9	449.2
37.5°	442.6	439.8	440.8	436.1	431.4	433.3	427.7	424.9	417.4	411.8	408.1
40°	395.0	396.9	393.1	391.3	388.5	385.7	385.7	381.0	377.3	370.7	368.9
42.5°	348.3	351.1	350.2	348.3	344.6	345.5	340.8	339.0	334.3	331.5	328.7
45°	311.0	311.0	311.0	309.1	308.2	306.3	303.5	300.7	297.9	294.1	292.3
47.5°	274.5	274.5	275.5	273.6	271.7	270.8	268.9	268.9	264.3	260.5	258.7
50°	244.7	244.7	244.7	242.8	240.9	240.9	239.1	237.2	234.4	231.6	229.7
52.5°	217.6	217.6	217.6	215.7	214.8	213.8	212.9	212.0	208.2	206.4	204.5
55°	195.2	194.2	194.2	193.3	191.4	191.4	190.5	188.6	185.8	183.0	182.1
57.5°	172.8	173.7	172.8	172.8	170.9	170.9	169.0	168.1	165.3	163.4	161.5
60°	155.0	155.0	155.0	154.1	152.2	153.1	151.3	150.3	147.5	144.7	142.9
62.5°	137.3	138.2	138.2	137.3	135.4	135.4	134.5	133.5	130.7	127.9	125.1
65°	122.3	122.3	122.3	121.4	120.5	120.5	119.5	118.6	115.8	112.1	109.3
67.5°	108.3	107.4	107.4	107.4	106.5	105.5	104.6	103.7	100.9	98.0	94.3
70°	94.3	94.3	94.3	93.4	91.5	92.4	91.5	90.6	87.8	85.0	82.2
72.5°	81.2	81.2	80.3	79.4	79.4	78.4	78.4	77.5	74.7	71.0	68.2
75°	67.2	67.2	67.2	67.2	65.4	66.3	64.4	63.5	61.6	58.8	56.0
77.5°	55.1	55.1	55.1	54.2	53.2	53.2	52.3	51.4	48.6	46.7	43.0
80°	43.0	43.0	43.0	43.0	42.0	41.1	40.2	39.2	37.4	34.6	31.7
82.5°	31.7	31.7	30.8	30.8	30.8	29.9	28.9	28.0	26.1	24.3	22.4
85°	17.7	18.7	18.7	16.8	17.7	16.8	16.8	14.9	14.9	13.1	12.1
87.5°	6.5	5.6	5.6	5.6	5.6	5.6	5.6	4.7	4.7	4.7	3.7
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	719.0	718.1	721.8	721.8	716.2	719.0	720.0	718.1	718.1	719.0	716.2
5°	717.2	715.3	719.0	720.0	714.4	717.2	718.1	716.2	717.2	718.1	714.4
7.5°	710.6	710.6	713.4	714.4	708.8	711.6	711.6	709.7	710.6	710.6	707.8
10°	704.1	701.3	704.1	704.1	699.4	700.4	702.2	701.3	705.0	709.7	709.7
12.5°	691.9	689.1	693.8	693.8	691.0	694.7	699.4	702.2	706.0	707.8	702.2
15°	677.0	677.9	686.3	692.9	690.1	695.7	700.4	698.5	693.8	688.2	679.8
17.5°	657.4	654.6	662.1	665.8	662.1	663.9	667.7	663.9	656.5	651.8	640.6
20°	635.0	627.5	627.5	625.6	619.1	619.1	618.2	611.6	608.8	606.0	601.4
22.5°	609.8	601.4	598.6	593.0	587.4	586.4	583.6	577.1	573.4	571.5	565.9
25°	580.8	573.4	568.7	563.1	554.7	552.8	550.0	543.5	541.6	538.8	534.1
27.5°	550.9	541.6	535.1	529.5	522.0	521.1	515.5	510.8	507.1	505.2	501.5
30°	516.4	506.1	501.5	494.0	488.4	486.5	481.8	475.3	472.5	470.6	467.8
32.5°	478.1	469.7	465.0	458.5	451.0	452.0	446.4	440.8	438.9	437.0	434.2
35°	440.8	432.3	426.7	421.1	416.5	414.6	410.9	406.2	403.4	402.5	400.6
37.5°	399.7	393.1	388.5	382.9	379.1	377.3	375.4	370.7	368.9	368.9	365.1
40°	359.5	353.9	350.2	347.4	342.7	341.8	339.9	337.1	336.2	335.2	332.4
42.5°	323.1	315.6	312.8	311.0	308.2	306.3	305.4	303.5	302.6	301.6	298.8
45°	288.5	282.0	279.2	277.3	274.5	273.6	272.7	269.9	268.0	266.1	265.2
47.5°	254.9	250.3	249.3	244.7	242.8	240.9	239.1	237.2	236.3	235.3	231.6
50°	226.0	223.2	218.5	215.7	213.8	212.9	209.2	206.4	205.4	204.5	201.7
52.5°	199.8	196.1	193.3	188.6	187.7	185.8	184.0	180.2	178.4	177.4	174.6
55°	176.5	173.7	170.0	166.2	163.4	162.5	159.7	155.9	154.1	152.2	150.3
57.5°	156.9	152.2	148.5	144.7	142.9	140.1	137.3	135.4	132.6	129.8	127.0
60°	138.2	134.5	129.8	126.1	124.2	122.3	118.6	115.8	113.0	110.2	107.4
62.5°	120.5	116.7	112.1	108.3	106.5	104.6	100.9	98.0	95.2	92.4	88.7
65°	104.6	100.9	97.1	93.4	91.5	89.6	85.9	82.2	79.4	76.6	72.8
67.5°	91.5	86.8	83.1	79.4	77.5	75.6	71.9	69.1	65.4	62.6	58.8
70°	77.5	73.8	71.0	67.2	65.4	63.5	59.8	56.0	53.2	50.4	46.7
72.5°	65.4	60.7	57.9	54.2	52.3	51.4	47.6	44.8	42.0	38.3	35.5
75°	52.3	48.6	44.8	42.0	40.2	39.2	35.5	32.7	29.9	27.1	24.3
77.5°	40.2	37.4	33.6	30.8	28.9	28.0	24.3	21.5	18.7	16.8	14.0
80°	29.9	26.1	24.3	21.5	20.5	18.7	16.8	14.0	12.1	9.3	7.5
82.5°	20.5	17.7	15.9	14.0	13.1	12.1	10.3	8.4	6.5	5.6	4.7
85°	11.2	9.3	8.4	7.5	6.5	6.5	5.6	4.7	3.7	2.8	1.9
87.5°	3.7	2.8	2.8	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	718.1	718.1	718.1	717.2	717.2	717.2	716.2	720.0	716.2	715.3	718.1
5°	717.2	715.3	715.3	715.3	715.3	714.4	713.4	715.3	712.5	711.6	711.6
7.5°	711.6	710.6	710.6	709.7	708.8	707.8	706.9	707.8	705.0	704.1	704.1
10°	712.5	710.6	710.6	707.8	706.0	703.2	700.4	701.3	697.5	694.7	694.7
12.5°	701.3	696.6	693.8	691.0	689.1	688.2	684.5	686.3	682.6	681.7	681.7
15°	676.1	670.5	665.8	663.9	663.9	662.1	659.3	663.0	661.1	662.1	666.7
17.5°	636.9	634.1	631.2	630.3	631.2	633.1	635.0	640.6	640.6	643.4	648.1
20°	602.3	600.4	602.3	602.3	603.2	607.0	610.7	615.4	617.2	620.0	626.6
22.5°	568.7	568.7	570.6	573.4	572.4	579.0	579.9	588.3	588.3	593.9	599.5
25°	536.0	536.0	537.9	538.8	540.7	544.4	548.1	554.7	556.5	562.1	566.8
27.5°	504.3	503.3	503.3	504.3	506.1	510.8	512.7	520.1	522.9	526.7	531.3
30°	468.8	467.8	469.7	471.6	470.6	475.3	478.1	483.7	485.6	489.3	493.0
32.5°	435.2	435.2	435.2	437.0	437.0	440.8	440.8	447.3	447.3	450.1	453.8
35°	400.6	400.6	401.5	402.5	403.4	404.3	405.3	409.0	409.9	410.9	412.7
37.5°	367.9	367.0	367.9	367.9	366.0	369.8	369.8	373.5	370.7	373.5	374.5
40°	334.3	334.3	333.4	333.4	333.4	335.2	333.4	336.2	334.3	336.2	335.2
42.5°	299.7	299.7	297.9	299.7	298.8	298.8	298.8	300.7	297.9	299.7	300.7
45°	265.2	264.3	264.3	263.3	263.3	263.3	264.3	264.3	263.3	265.2	265.2
47.5°	231.6	230.6	230.6	230.6	230.6	231.6	228.8	230.6	228.8	228.8	228.8
50°	202.6	201.7	200.8	199.8	198.9	198.9	198.0	198.0	196.1	195.2	194.2
52.5°	174.6	173.7	171.8	171.8	170.9	170.0	167.2	167.2	164.3	163.4	163.4
55°	149.4	146.6	145.7	143.8	143.8	141.9	140.1	138.2	135.4	133.5	133.5
57.5°	126.1	123.3	121.4	120.5	119.5	117.7	113.9	113.0	109.3	108.3	107.4
60°	105.5	102.7	99.9	98.0	97.1	94.3	90.6	88.7	86.8	84.0	81.2
62.5°	85.9	83.1	79.4	78.4	76.6	73.8	71.0	68.2	66.3	63.5	61.6
65°	69.1	66.3	63.5	61.6	59.8	57.0	54.2	51.4	49.5	48.6	47.6
67.5°	56.0	52.3	49.5	48.6	46.7	44.8	42.0	41.1	39.2	39.2	39.2
70°	43.9	41.1	38.3	37.4	36.4	34.6	32.7	32.7	32.7	32.7	32.7
72.5°	32.7	30.8	28.0	27.1	26.1	25.2	23.3	24.3	23.3	23.3	23.3
75°	20.5	18.7	16.8	15.9	14.9	14.0	13.1	12.1	11.2	10.3	10.3
77.5°	11.2	9.3	8.4	7.5	7.5	6.5	5.6	5.6	4.7	4.7	4.7
80°	6.5	5.6	4.7	3.7	3.7	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	3.7	2.8	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
85°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	713.4	716.2	713.4	716.2	716.2	716.2	716.2	713.4
5°	708.8	710.6	707.8	709.7	710.6	709.7	709.7	706.9
7.5°	700.4	702.2	699.4	702.2	703.2	702.2	701.3	699.4
10°	691.9	692.9	690.1	691.9	693.8	693.8	692.9	690.1
12.5°	678.9	681.7	678.9	680.7	682.6	683.5	683.5	680.7
15°	663.9	668.6	666.7	669.5	672.3	673.3	673.3	672.3
17.5°	649.0	653.7	650.9	655.5	658.3	660.2	661.1	659.3
20°	627.5	633.1	631.2	635.0	638.7	641.5	641.5	638.7
22.5°	599.5	607.0	606.0	608.8	613.5	614.4	616.3	614.4
25°	568.7	574.3	573.4	576.2	581.8	581.8	582.7	582.7
27.5°	533.2	538.8	537.9	539.7	543.5	544.4	545.3	543.5
30°	494.9	497.7	497.7	500.5	503.3	504.3	504.3	501.5
32.5°	452.9	456.6	458.5	457.6	460.4	462.2	461.3	461.3
35°	414.6	415.5	416.5	417.4	418.3	420.2	418.3	417.4
37.5°	373.5	376.3	374.5	376.3	378.2	377.3	376.3	376.3
40°	336.2	337.1	335.2	337.1	338.0	338.0	338.0	336.2
42.5°	298.8	300.7	298.8	300.7	300.7	300.7	300.7	299.7
45°	261.5	263.3	263.3	264.3	264.3	263.3	263.3	263.3
47.5°	226.9	228.8	226.9	228.8	229.7	227.8	227.8	227.8
50°	194.2	193.3	193.3	194.2	194.2	194.2	194.2	193.3
52.5°	160.6	161.5	161.5	161.5	162.5	161.5	162.5	162.5
55°	131.7	131.7	131.7	132.6	131.7	131.7	132.6	133.5
57.5°	105.5	104.6	103.7	103.7	104.6	103.7	103.7	103.7
60°	81.2	80.3	79.4	79.4	79.4	79.4	79.4	78.4
62.5°	60.7	60.7	60.7	61.6	61.6	61.6	61.6	62.6
65°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	49.5
67.5°	39.2	39.2	39.2	40.2	40.2	40.2	40.2	40.2
70°	32.7	32.7	33.6	32.7	33.6	33.6	33.6	33.6
72.5°	22.4	22.4	22.4	22.4	22.4	21.5	22.4	21.5
75°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	8.4
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)