

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: P252245

Luminaire Tested: **LD6B15D010 EU6B10208027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1297.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

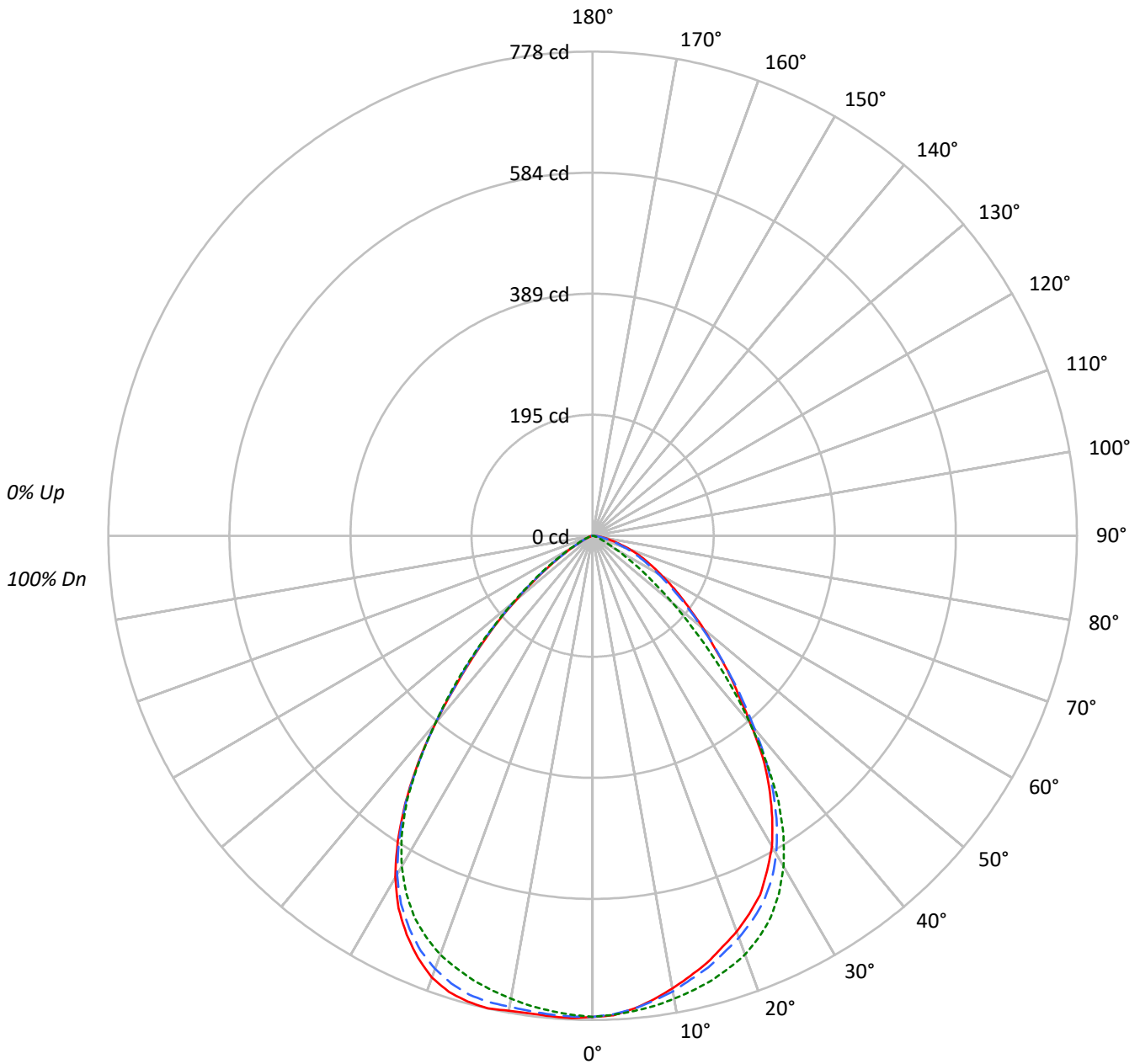
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52								
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40								
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50438	50438	50438
5°	49956	50205	50755
10°	48923	50043	51341
15°	47989	49947	52345
20°	46996	49717	52446
25°	45840	48727	50879
30°	43400	46209	47761
35°	39416	41423	41789
40°	33632	33479	33317
45°	28251	25068	24293
50°	23598	16960	16107
55°	19860	10408	9452
60°	16806	5480	4750
65°	14557	2887	2300
70°	12113	1774	1240
75°	8949	1185	706
80°	7026	714	338
85°	5614	674	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	5.6
10°-20°	208.6	16.1
20°-30°	308.1	23.8
30°-40°	317.5	24.5
40°-50°	219.3	16.9
50°-60°	108.1	8.3
60°-70°	43.8	3.4
70°-80°	15.6	1.2
80°-90°	3.2	0.2
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°	589.5	45.5
0°-40°	907.0	69.9
0°-60°	1234.4	95.2
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	773	773	773	773	773	
5°	763	763	767	772	775	72
15°	710	718	740	764	775	200
25°	637	649	677	696	707	291
35°	495	507	520	523	525	307
45°	306	308	272	268	263	237
55°	175	168	92	86	83	158
65°	94	85	19	15	15	94
75°	36	30	5	3	3	40
85°	8	6	1	0	0	9
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	771.2	768.4	770.3	766.6	771.2	766.6	767.5	768.4	767.5	768.4	769.4
5°	762.8	760.0	762.8	758.2	762.8	760.0	760.0	761.0	761.0	761.9	762.8
7.5°	751.6	748.8	751.6	746.9	752.6	749.7	749.7	751.6	750.7	751.6	753.5
10°	738.5	734.8	737.6	734.8	740.4	736.7	738.5	738.5	738.5	741.3	743.2
12.5°	724.5	720.8	724.5	719.9	725.5	722.7	723.6	726.4	727.3	729.2	730.1
15°	710.5	705.9	707.7	704.9	710.5	707.7	708.7	712.4	712.4	715.2	718.0
17.5°	692.8	689.1	692.8	689.1	693.7	691.9	693.7	696.5	696.5	699.3	702.1
20°	676.9	673.2	676.0	673.2	678.8	676.0	676.9	680.7	681.6	684.4	687.2
22.5°	657.3	654.5	656.4	653.6	659.2	657.3	658.2	662.0	662.9	664.8	669.5
25°	636.8	631.2	634.0	632.1	637.7	634.9	636.8	640.5	642.4	645.2	648.9
27.5°	606.9	604.1	606.0	606.0	610.6	607.8	608.8	612.5	615.3	618.1	622.8
30°	576.1	571.4	573.3	574.2	578.0	576.1	578.0	581.7	582.6	586.4	590.1
32.5°	536.9	535.0	538.7	536.9	538.7	538.7	539.7	542.5	544.3	546.2	550.9
35°	494.9	491.1	494.9	493.0	497.7	494.9	497.7	500.5	500.5	504.2	507.0
37.5°	449.1	444.4	446.3	446.3	448.2	447.2	447.2	451.9	452.8	455.6	458.4
40°	394.9	393.1	396.8	395.9	396.8	396.8	397.8	400.6	402.4	403.4	404.3
42.5°	346.4	347.3	348.3	348.3	348.3	348.3	348.3	352.0	351.1	353.9	354.8
45°	306.2	302.5	304.4	303.4	306.2	303.4	306.2	309.0	307.2	310.0	308.1
47.5°	265.2	265.2	265.2	264.2	266.1	265.2	267.0	268.0	268.0	268.0	267.0
50°	232.5	229.7	230.6	230.6	231.6	230.6	232.5	233.4	233.4	231.6	227.8
52.5°	200.7	199.8	199.8	201.7	201.7	200.7	200.7	200.7	200.7	197.9	196.1
55°	174.6	172.7	173.7	173.7	173.7	173.7	174.6	173.7	173.7	170.9	168.1
57.5°	151.3	149.4	149.4	149.4	150.3	149.4	149.4	149.4	148.5	145.7	141.9
60°	128.8	127.9	128.8	128.8	129.8	128.8	128.8	128.8	127.0	124.2	120.4
62.5°	110.2	110.2	110.2	111.1	111.1	110.2	110.2	109.2	108.3	104.6	100.8
65°	94.3	93.4	94.3	94.3	95.2	95.2	94.3	93.4	92.4	88.7	85.0
67.5°	78.4	77.5	78.4	78.4	79.4	78.4	78.4	78.4	75.6	73.8	70.0
70°	63.5	62.6	62.6	62.6	63.5	61.6	62.6	62.6	60.7	57.9	54.2
72.5°	48.6	48.6	48.6	48.6	48.6	48.6	47.6	47.6	45.8	42.9	41.1
75°	35.5	35.5	36.4	36.4	35.5	35.5	35.5	34.5	33.6	31.7	29.9
77.5°	26.1	26.1	26.1	26.1	25.2	25.2	25.2	24.3	23.3	22.4	20.5
80°	18.7	18.7	18.7	17.7	18.7	17.7	17.7	17.7	15.9	14.9	14.0
82.5°	13.1	12.1	12.1	12.1	12.1	12.1	12.1	11.2	11.2	10.3	9.3
85°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	5.6	5.6
87.5°	3.7	4.7	4.7	4.7	4.7	4.7	4.7	3.7	3.7	3.7	2.8
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	769.4	769.4	771.2	768.4	773.1	770.3	769.4	774.0	771.2	770.3	772.2
5°	762.8	763.8	764.7	762.8	767.5	764.7	764.7	769.4	767.5	766.6	769.4
7.5°	754.4	755.4	757.2	756.3	760.0	758.2	759.1	763.8	761.9	761.9	764.7
10°	744.1	746.0	747.9	747.9	752.6	750.7	750.7	756.3	754.4	755.4	759.1
12.5°	732.0	734.8	737.6	738.5	743.2	740.4	741.3	747.9	746.9	747.9	751.6
15°	718.9	722.7	725.5	725.5	731.1	728.3	731.1	737.6	735.7	739.5	744.1
17.5°	704.0	707.7	711.5	712.4	718.0	716.1	719.9	726.4	726.4	728.3	733.9
20°	690.0	694.7	696.5	699.3	704.9	704.0	705.9	713.3	713.3	716.1	721.7
22.5°	671.3	676.0	679.7	682.5	687.2	687.2	690.0	696.5	696.5	698.4	704.0
25°	650.8	656.4	659.2	662.0	666.7	665.7	668.5	674.1	675.1	676.9	682.5
27.5°	624.6	629.3	633.0	634.9	641.4	637.7	640.5	647.0	646.1	648.0	652.6
30°	592.0	596.6	600.4	600.4	606.0	606.0	608.8	611.6	611.6	613.4	617.2
32.5°	553.7	559.3	559.3	562.1	565.8	562.1	565.8	569.5	567.7	570.5	573.3
35°	509.8	512.6	513.5	513.5	516.3	515.4	514.5	517.3	515.4	520.1	522.9
37.5°	456.6	460.3	458.4	460.3	459.4	456.6	456.6	461.2	457.5	458.4	461.2
40°	405.2	405.2	404.3	399.6	400.6	397.8	396.8	397.8	394.0	393.1	396.8
42.5°	352.0	351.1	348.3	341.7	342.7	338.0	334.3	334.3	332.4	331.5	332.4
45°	304.4	301.6	296.9	289.4	287.6	283.8	276.4	274.5	271.7	271.7	272.6
47.5°	260.5	256.8	249.3	240.9	236.2	231.6	224.1	221.3	216.6	214.7	216.6
50°	224.1	217.5	208.2	196.1	191.4	185.8	178.3	173.7	169.0	167.1	166.2
52.5°	190.5	181.1	171.8	156.9	153.1	147.5	137.3	132.6	127.9	124.2	124.2
55°	161.5	153.1	140.1	126.0	120.4	114.8	104.6	98.0	93.4	91.5	89.6
57.5°	135.4	126.0	113.9	99.0	93.4	87.8	77.5	71.0	66.3	63.5	61.6
60°	113.9	103.6	91.5	78.4	71.9	66.3	56.0	49.5	44.8	42.0	40.1
62.5°	93.4	85.0	72.8	60.7	55.1	49.5	41.1	34.5	29.9	28.0	25.2
65°	78.4	70.0	58.8	48.6	43.9	38.3	30.8	25.2	21.5	18.7	16.8
67.5°	63.5	57.0	47.6	38.3	33.6	29.9	23.3	18.7	14.9	13.1	12.1
70°	50.4	43.9	36.4	28.9	26.1	22.4	17.7	13.1	11.2	9.3	8.4
72.5°	37.3	32.7	27.1	21.5	18.7	16.8	12.1	10.3	7.5	6.5	5.6
75°	27.1	23.3	19.6	14.9	13.1	12.1	9.3	6.5	5.6	4.7	3.7
77.5°	18.7	16.8	13.1	10.3	9.3	8.4	6.5	4.7	3.7	2.8	2.8
80°	12.1	10.3	8.4	6.5	6.5	5.6	3.7	2.8	2.8	1.9	1.9
82.5°	7.5	6.5	5.6	4.7	3.7	3.7	2.8	1.9	1.9	0.9	0.9
85°	4.7	3.7	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
87.5°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	772.2	772.2	774.0	771.2	773.1	773.1	775.0	771.2	773.1	774.0	775.9
5°	768.4	769.4	771.2	770.3	771.2	771.2	773.1	768.4	772.2	772.2	775.0
7.5°	764.7	764.7	766.6	765.6	767.5	768.4	770.3	766.6	770.3	770.3	773.1
10°	760.0	760.0	762.8	761.9	764.7	765.6	768.4	764.7	768.4	769.4	772.2
12.5°	753.5	754.4	757.2	757.2	760.0	761.9	764.7	762.8	767.5	768.4	772.2
15°	746.0	747.9	751.6	750.7	753.5	756.3	760.0	757.2	763.8	765.6	769.4
17.5°	736.7	738.5	741.3	741.3	744.1	746.0	750.7	748.8	754.4	755.4	760.0
20°	722.7	725.5	729.2	728.3	731.1	732.9	736.7	734.8	740.4	742.3	746.9
22.5°	705.9	707.7	710.5	710.5	713.3	715.2	718.9	716.1	721.7	722.7	726.4
25°	683.5	685.3	687.2	688.1	690.9	691.9	693.7	691.9	696.5	697.5	702.1
27.5°	654.5	655.4	658.2	658.2	660.1	661.0	663.9	660.1	666.7	666.7	669.5
30°	620.0	619.0	622.8	620.9	622.8	622.8	625.6	623.7	628.4	626.5	629.3
32.5°	574.2	576.1	576.1	574.2	578.0	577.0	577.0	575.2	578.0	578.9	580.8
35°	521.0	523.8	523.8	524.7	525.7	522.9	523.8	518.2	522.9	523.8	524.7
37.5°	463.1	460.3	462.2	459.4	464.0	458.4	458.4	454.7	458.4	458.4	459.4
40°	396.8	395.9	397.8	395.9	394.9	394.0	392.1	389.3	393.1	391.2	394.0
42.5°	334.3	333.3	333.3	331.5	330.5	330.5	328.7	326.8	325.9	325.9	330.5
45°	269.8	271.7	269.8	268.9	270.8	268.9	269.8	266.1	268.0	266.1	268.0
47.5°	215.7	216.6	214.7	212.9	215.7	212.9	212.9	210.1	213.8	213.8	211.9
50°	167.1	166.2	164.3	166.2	165.3	165.3	165.3	162.5	164.3	161.5	163.4
52.5°	123.2	122.3	122.3	121.4	122.3	121.4	121.4	120.4	120.4	119.5	120.4
55°	89.6	88.7	86.8	86.8	86.8	87.8	86.8	85.9	85.9	85.0	85.9
57.5°	60.7	58.8	58.8	58.8	58.8	57.9	57.9	57.0	57.9	57.0	57.9
60°	39.2	39.2	37.3	37.3	37.3	37.3	37.3	36.4	37.3	37.3	37.3
62.5°	24.3	24.3	23.3	22.4	23.3	22.4	22.4	22.4	23.3	22.4	23.3
65°	15.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
67.5°	11.2	10.3	10.3	10.3	10.3	10.3	10.3	9.3	10.3	10.3	10.3
70°	7.5	7.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	773.1	774.0	772.2	773.1	771.2	773.1	774.0	775.9
5°	771.2	772.2	770.3	772.2	770.3	772.2	773.1	775.0
7.5°	769.4	771.2	769.4	771.2	769.4	771.2	772.2	774.0
10°	769.4	772.2	770.3	773.1	770.3	772.2	774.0	775.0
12.5°	769.4	772.2	771.2	773.1	772.2	774.0	775.9	777.8
15°	767.5	770.3	768.4	771.2	770.3	771.2	775.0	775.0
17.5°	757.2	760.0	760.0	761.9	761.9	764.7	766.6	768.4
20°	744.1	746.9	746.0	748.8	748.8	751.6	753.5	755.4
22.5°	724.5	728.3	727.3	730.1	729.2	731.1	734.8	733.9
25°	699.3	704.0	703.1	704.9	704.0	704.0	705.9	706.8
27.5°	668.5	671.3	670.4	672.3	670.4	672.3	674.1	675.1
30°	628.4	630.2	629.3	630.2	629.3	631.2	632.1	634.0
32.5°	579.8	582.6	579.8	581.7	580.8	580.8	584.5	582.6
35°	521.9	522.9	523.8	523.8	521.9	522.9	524.7	524.7
37.5°	457.5	462.2	456.6	459.4	458.4	458.4	458.4	461.2
40°	390.3	391.2	389.3	389.3	389.3	388.4	392.1	391.2
42.5°	326.8	327.7	326.8	324.0	324.9	324.9	327.7	324.0
45°	265.2	267.0	266.1	266.1	264.2	264.2	265.2	263.3
47.5°	210.1	211.9	209.1	210.1	208.2	210.1	209.1	211.0
50°	159.7	161.5	160.6	161.5	161.5	159.7	162.5	158.7
52.5°	119.5	120.4	119.5	118.6	117.6	117.6	119.5	118.6
55°	85.0	84.0	84.0	84.0	85.0	85.0	84.0	83.1
57.5°	57.0	57.0	56.0	56.0	57.0	55.1	56.0	55.1
60°	36.4	36.4	36.4	36.4	35.5	36.4	36.4	36.4
62.5°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
65°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
67.5°	9.3	10.3	10.3	10.3	9.3	9.3	9.3	9.3
70°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)