

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: P252371

Luminaire Tested: **LD6B20D010 EU6B10209040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252371
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: LD6B20D010 EU6B10209040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1599.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

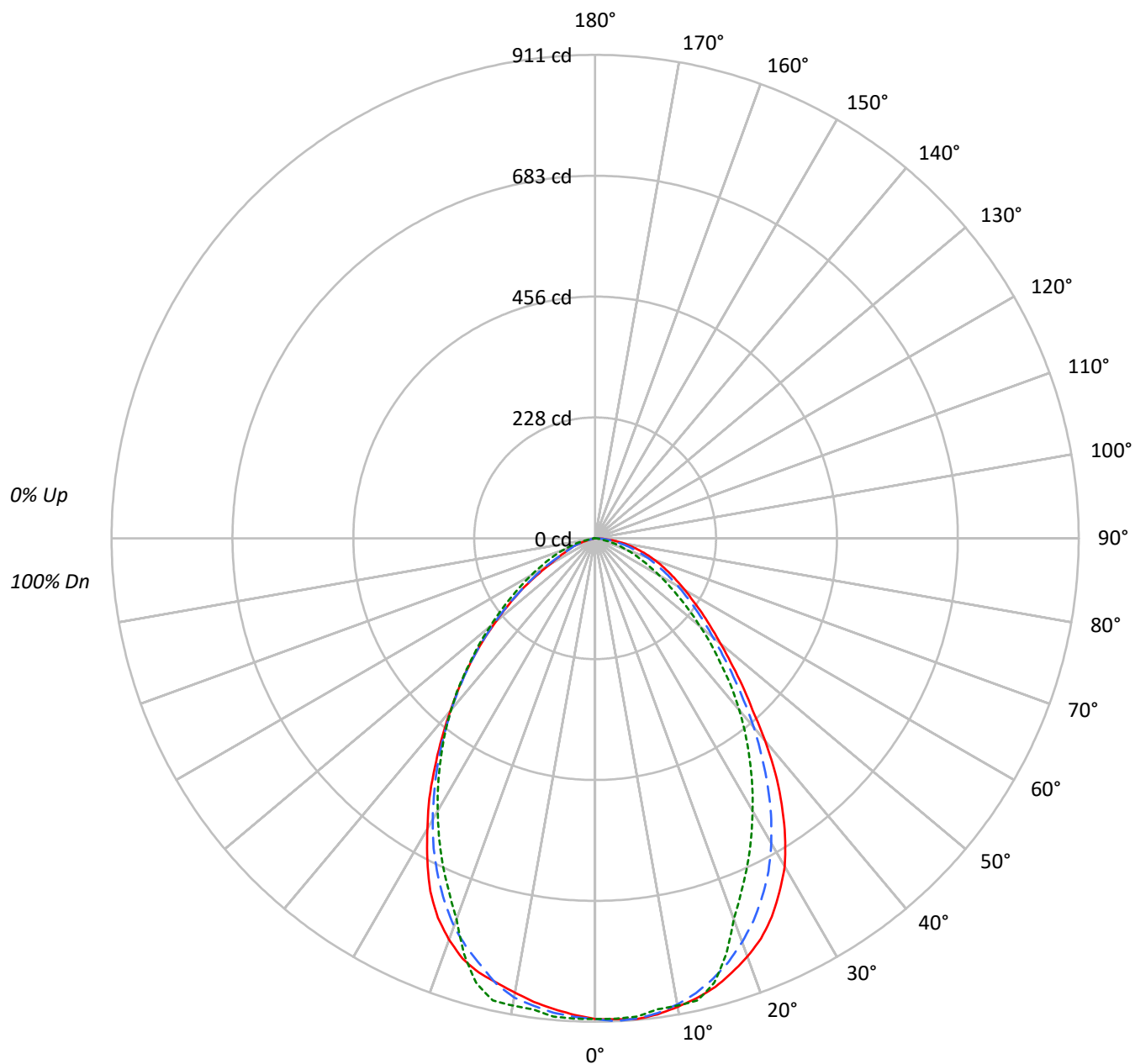
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	59108	59108	59108
5°	59563	59255	58332
10°	59397	59238	57602
15°	59126	58572	57222
20°	58243	53015	55875
25°	56667	48871	52851
30°	53803	44673	47603
35°	48822	40388	41893
40°	42387	35974	36076
45°	36149	30936	30613
50°	31291	26156	24725
55°	27970	21816	19143
60°	25483	18111	12892
65°	23789	14897	9633
70°	22661	12113	8088
75°	21350	8596	2672
80°	20326	4433	902
85°	16768	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	5.4
10°-20°	239.3	15.0
20°-30°	330.3	20.7
30°-40°	336.1	21.0
40°-50°	270.1	16.9
50°-60°	179.6	11.2
60°-70°	102.4	6.4
70°-80°	46.0	2.9
80°-90°	9.7	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°	655.1	41.0
0°-40°	991.3	62.0
0°-60°	1441.0	90.1
0°-90°	1599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	906	906	906	906	906	
5°	910	908	905	898	891	86
15°	875	859	867	833	847	246
25°	787	745	679	701	734	361
35°	613	566	507	516	526	381
45°	392	368	335	332	332	304
55°	246	229	192	171	168	221
65°	154	138	96	62	62	154
75°	85	71	34	14	11	90
85°	22	15	4	1	0	27
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°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	907.2	911.9	910.7	909.5	910.7	909.5	907.2	907.2	904.8	904.8	910.7
5°	909.5	911.9	910.7	909.5	909.5	910.7	906.0	906.0	903.7	902.5	908.4
7.5°	904.8	908.4	906.0	906.0	904.8	906.0	901.3	901.3	897.8	896.6	902.5
10°	896.6	901.3	898.9	898.9	898.9	896.6	894.2	893.1	889.5	888.4	891.9
12.5°	887.2	890.7	889.5	887.2	887.2	887.2	882.5	881.3	876.6	874.2	877.8
15°	875.4	877.8	876.6	875.4	873.1	873.1	868.4	866.0	861.3	856.6	858.9
17.5°	857.8	861.3	858.9	857.8	854.2	854.2	849.5	847.2	840.1	835.4	836.6
20°	838.9	840.1	838.9	836.6	833.1	831.9	827.2	822.5	816.6	810.7	809.5
22.5°	816.6	817.8	814.2	811.9	808.3	807.2	801.3	797.8	788.3	781.3	780.1
25°	787.2	788.3	788.3	782.5	780.1	777.8	771.9	766.0	757.8	748.3	744.8
27.5°	751.9	755.4	753.0	747.2	742.5	741.3	735.4	730.7	720.1	711.9	707.2
30°	714.2	713.0	711.9	708.3	701.3	700.1	694.2	688.3	680.1	669.5	663.6
32.5°	666.0	666.0	664.8	661.3	654.2	651.9	647.1	640.1	630.7	622.4	616.6
35°	613.0	614.2	613.0	606.0	601.3	598.9	596.6	588.3	580.1	570.7	566.0
37.5°	557.7	554.2	555.4	549.5	543.6	546.0	538.9	535.4	526.0	518.9	514.2
40°	497.7	500.1	495.4	493.0	489.5	485.9	485.9	480.1	475.4	467.1	464.8
42.5°	438.9	442.4	441.2	438.9	434.2	435.4	429.5	427.1	421.2	417.7	414.2
45°	391.8	391.8	391.8	389.5	388.3	385.9	382.4	378.9	375.3	370.6	368.3
47.5°	345.9	345.9	347.1	344.8	342.4	341.2	338.9	338.9	333.0	328.3	325.9
50°	308.3	308.3	308.3	305.9	303.6	303.6	301.2	298.9	295.3	291.8	289.5
52.5°	274.2	274.2	274.2	271.8	270.6	269.4	268.3	267.1	262.4	260.0	257.7
55°	245.9	244.7	244.7	243.6	241.2	241.2	240.0	237.7	234.1	230.6	229.4
57.5°	217.7	218.9	217.7	217.7	215.3	215.3	213.0	211.8	208.3	205.9	203.6
60°	195.3	195.3	195.3	194.1	191.8	193.0	190.6	189.4	185.9	182.4	180.0
62.5°	173.0	174.1	174.1	173.0	170.6	170.6	169.4	168.3	164.7	161.2	157.7
65°	154.1	154.1	154.1	153.0	151.8	151.8	150.6	149.4	145.9	141.2	137.7
67.5°	136.5	135.3	135.3	135.3	134.1	133.0	131.8	130.6	127.1	123.5	118.8
70°	118.8	118.8	118.8	117.7	115.3	116.5	115.3	114.1	110.6	107.1	103.5
72.5°	102.4	102.4	101.2	100.0	100.0	98.8	98.8	97.7	94.1	89.4	85.9
75°	84.7	84.7	84.7	84.7	82.4	83.5	81.2	80.0	77.7	74.1	70.6
77.5°	69.4	69.4	69.4	68.2	67.1	67.1	65.9	64.7	61.2	58.8	54.1
80°	54.1	54.1	54.1	54.1	52.9	51.8	50.6	49.4	47.1	43.5	40.0
82.5°	40.0	40.0	38.8	38.8	38.8	37.7	36.5	35.3	32.9	30.6	28.2
85°	22.4	23.5	23.5	21.2	22.4	21.2	21.2	18.8	18.8	16.5	15.3
87.5°	8.2	7.1	7.1	7.1	7.1	7.1	7.1	5.9	5.9	5.9	4.7
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°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	906.0	904.8	909.5	909.5	902.5	906.0	907.2	904.8	904.8	906.0	902.5
5°	903.7	901.3	906.0	907.2	900.1	903.7	904.8	902.5	903.7	904.8	900.1
7.5°	895.4	895.4	898.9	900.1	893.1	896.6	896.6	894.2	895.4	895.4	891.9
10°	887.2	883.7	887.2	887.2	881.3	882.5	884.8	883.7	888.4	894.2	894.2
12.5°	871.9	868.4	874.2	874.2	870.7	875.4	881.3	884.8	889.5	891.9	884.8
15°	853.1	854.2	864.8	873.1	869.5	876.6	882.5	880.1	874.2	867.2	856.6
17.5°	828.3	824.8	834.2	838.9	834.2	836.6	841.3	836.6	827.2	821.3	807.2
20°	800.1	790.7	790.7	788.3	780.1	780.1	778.9	770.7	767.2	763.6	757.8
22.5°	768.3	757.8	754.2	747.2	740.1	738.9	735.4	727.2	722.5	720.1	713.0
25°	731.9	722.5	716.6	709.5	698.9	696.6	693.0	684.8	682.4	678.9	673.0
27.5°	694.2	682.4	674.2	667.2	657.7	656.6	649.5	643.6	638.9	636.6	631.9
30°	650.7	637.7	631.9	622.4	615.4	613.0	607.1	598.9	595.4	593.0	589.5
32.5°	602.4	591.8	586.0	577.7	568.3	569.5	562.4	555.4	553.0	550.7	547.1
35°	555.4	544.8	537.7	530.7	524.8	522.4	517.7	511.8	508.3	507.1	504.8
37.5°	503.6	495.4	489.5	482.4	477.7	475.4	473.0	467.1	464.8	464.8	460.1
40°	453.0	445.9	441.2	437.7	431.8	430.6	428.3	424.8	423.6	422.4	418.9
42.5°	407.1	397.7	394.2	391.8	388.3	385.9	384.8	382.4	381.2	380.1	376.5
45°	363.6	355.3	351.8	349.5	345.9	344.8	343.6	340.0	337.7	335.3	334.2
47.5°	321.2	315.3	314.2	308.3	305.9	303.6	301.2	298.9	297.7	296.5	291.8
50°	284.7	281.2	275.3	271.8	269.4	268.3	263.6	260.0	258.9	257.7	254.2
52.5°	251.8	247.1	243.6	237.7	236.5	234.1	231.8	227.1	224.7	223.6	220.0
55°	222.4	218.9	214.1	209.4	205.9	204.7	201.2	196.5	194.1	191.8	189.4
57.5°	197.7	191.8	187.1	182.4	180.0	176.5	173.0	170.6	167.1	163.6	160.0
60°	174.1	169.4	163.6	158.8	156.5	154.1	149.4	145.9	142.4	138.8	135.3
62.5°	151.8	147.1	141.2	136.5	134.1	131.8	127.1	123.5	120.0	116.5	111.8
65°	131.8	127.1	122.4	117.7	115.3	113.0	108.3	103.5	100.0	96.5	91.8
67.5°	115.3	109.4	104.7	100.0	97.7	95.3	90.6	87.1	82.4	78.8	74.1
70°	97.7	93.0	89.4	84.7	82.4	80.0	75.3	70.6	67.1	63.5	58.8
72.5°	82.4	76.5	73.0	68.2	65.9	64.7	60.0	56.5	52.9	48.2	44.7
75°	65.9	61.2	56.5	52.9	50.6	49.4	44.7	41.2	37.7	34.1	30.6
77.5°	50.6	47.1	42.4	38.8	36.5	35.3	30.6	27.1	23.5	21.2	17.6
80°	37.7	32.9	30.6	27.1	25.9	23.5	21.2	17.6	15.3	11.8	9.4
82.5°	25.9	22.4	20.0	17.6	16.5	15.3	12.9	10.6	8.2	7.1	5.9
85°	14.1	11.8	10.6	9.4	8.2	8.2	7.1	5.9	4.7	3.5	2.4
87.5°	4.7	3.5	3.5	3.5	3.5	2.4	2.4	2.4	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	904.8	904.8	904.8	903.7	903.7	903.7	902.5	907.2	902.5	901.3	904.8
5°	903.7	901.3	901.3	901.3	901.3	900.1	898.9	901.3	897.8	896.6	896.6
7.5°	896.6	895.4	895.4	894.2	893.1	891.9	890.7	891.9	888.4	887.2	887.2
10°	897.8	895.4	895.4	891.9	889.5	886.0	882.5	883.7	878.9	875.4	875.4
12.5°	883.7	877.8	874.2	870.7	868.4	867.2	862.5	864.8	860.1	858.9	858.9
15°	851.9	844.8	838.9	836.6	836.6	834.2	830.7	835.4	833.1	834.2	840.1
17.5°	802.5	798.9	795.4	794.2	795.4	797.8	800.1	807.2	807.2	810.7	816.6
20°	758.9	756.6	758.9	758.9	760.1	764.8	769.5	775.4	777.8	781.3	789.5
22.5°	716.6	716.6	718.9	722.5	721.3	729.5	730.7	741.3	741.3	748.3	755.4
25°	675.4	675.4	677.7	678.9	681.3	686.0	690.7	698.9	701.3	708.3	714.2
27.5°	635.4	634.2	634.2	635.4	637.7	643.6	646.0	655.4	658.9	663.6	669.5
30°	590.7	589.5	591.8	594.2	593.0	598.9	602.4	609.5	611.8	616.6	621.3
32.5°	548.3	548.3	548.3	550.7	550.7	555.4	555.4	563.6	563.6	567.1	571.8
35°	504.8	504.8	506.0	507.1	508.3	509.5	510.7	515.4	516.5	517.7	520.1
37.5°	463.6	462.4	463.6	463.6	461.2	465.9	465.9	470.7	467.1	470.7	471.8
40°	421.2	421.2	420.1	420.1	420.1	422.4	420.1	423.6	421.2	423.6	422.4
42.5°	377.7	377.7	375.3	377.7	376.5	376.5	376.5	378.9	375.3	377.7	378.9
45°	334.2	333.0	333.0	331.8	331.8	331.8	333.0	333.0	331.8	334.2	334.2
47.5°	291.8	290.6	290.6	290.6	290.6	291.8	288.3	290.6	288.3	288.3	288.3
50°	255.3	254.2	253.0	251.8	250.6	250.6	249.4	249.4	247.1	245.9	244.7
52.5°	220.0	218.9	216.5	216.5	215.3	214.1	210.6	210.6	207.1	205.9	205.9
55°	188.3	184.7	183.6	181.2	181.2	178.8	176.5	174.1	170.6	168.3	168.3
57.5°	158.8	155.3	153.0	151.8	150.6	148.3	143.5	142.4	137.7	136.5	135.3
60°	133.0	129.4	125.9	123.5	122.4	118.8	114.1	111.8	109.4	105.9	102.4
62.5°	108.3	104.7	100.0	98.8	96.5	93.0	89.4	85.9	83.5	80.0	77.7
65°	87.1	83.5	80.0	77.7	75.3	71.8	68.2	64.7	62.4	61.2	60.0
67.5°	70.6	65.9	62.4	61.2	58.8	56.5	52.9	51.8	49.4	49.4	49.4
70°	55.3	51.8	48.2	47.1	45.9	43.5	41.2	41.2	41.2	41.2	41.2
72.5°	41.2	38.8	35.3	34.1	32.9	31.8	29.4	30.6	29.4	29.4	29.4
75°	25.9	23.5	21.2	20.0	18.8	17.6	16.5	15.3	14.1	12.9	12.9
77.5°	14.1	11.8	10.6	9.4	9.4	8.2	7.1	7.1	5.9	5.9	5.9
80°	8.2	7.1	5.9	4.7	4.7	3.5	3.5	3.5	3.5	2.4	2.4
82.5°	4.7	3.5	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
85°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	898.9	902.5	898.9	902.5	902.5	902.5	902.5	898.9
5°	893.1	895.4	891.9	894.2	895.4	894.2	894.2	890.7
7.5°	882.5	884.8	881.3	884.8	886.0	884.8	883.7	881.3
10°	871.9	873.1	869.5	871.9	874.2	874.2	873.1	869.5
12.5°	855.4	858.9	855.4	857.8	860.1	861.3	861.3	857.8
15°	836.6	842.5	840.1	843.6	847.2	848.4	848.4	847.2
17.5°	817.8	823.6	820.1	826.0	829.5	831.9	833.1	830.7
20°	790.7	797.8	795.4	800.1	804.8	808.3	808.3	804.8
22.5°	755.4	764.8	763.6	767.2	773.0	774.2	776.6	774.2
25°	716.6	723.6	722.5	726.0	733.0	733.0	734.2	734.2
27.5°	671.9	678.9	677.7	680.1	684.8	686.0	687.2	684.8
30°	623.6	627.1	627.1	630.7	634.2	635.4	635.4	631.9
32.5°	570.7	575.4	577.7	576.5	580.1	582.4	581.3	581.3
35°	522.4	523.6	524.8	526.0	527.1	529.5	527.1	526.0
37.5°	470.7	474.2	471.8	474.2	476.5	475.4	474.2	474.2
40°	423.6	424.8	422.4	424.8	425.9	425.9	425.9	423.6
42.5°	376.5	378.9	376.5	378.9	378.9	378.9	378.9	377.7
45°	329.5	331.8	331.8	333.0	333.0	331.8	331.8	331.8
47.5°	285.9	288.3	285.9	288.3	289.5	287.1	287.1	287.1
50°	244.7	243.6	243.6	244.7	244.7	244.7	244.7	243.6
52.5°	202.4	203.6	203.6	203.6	204.7	203.6	204.7	204.7
55°	165.9	165.9	165.9	167.1	165.9	165.9	167.1	168.3
57.5°	133.0	131.8	130.6	130.6	131.8	130.6	130.6	130.6
60°	102.4	101.2	100.0	100.0	100.0	100.0	100.0	98.8
62.5°	76.5	76.5	76.5	77.7	77.7	77.7	77.7	78.8
65°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	62.4
67.5°	49.4	49.4	49.4	50.6	50.6	50.6	50.6	50.6
70°	41.2	41.2	42.4	41.2	42.4	42.4	42.4	42.4
72.5°	28.2	28.2	28.2	28.2	28.2	27.1	28.2	27.1
75°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	10.6
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)