

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: P252370

Luminaire Tested: **LD6B20D010 EU6B10209035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252370
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 EU6B10209035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

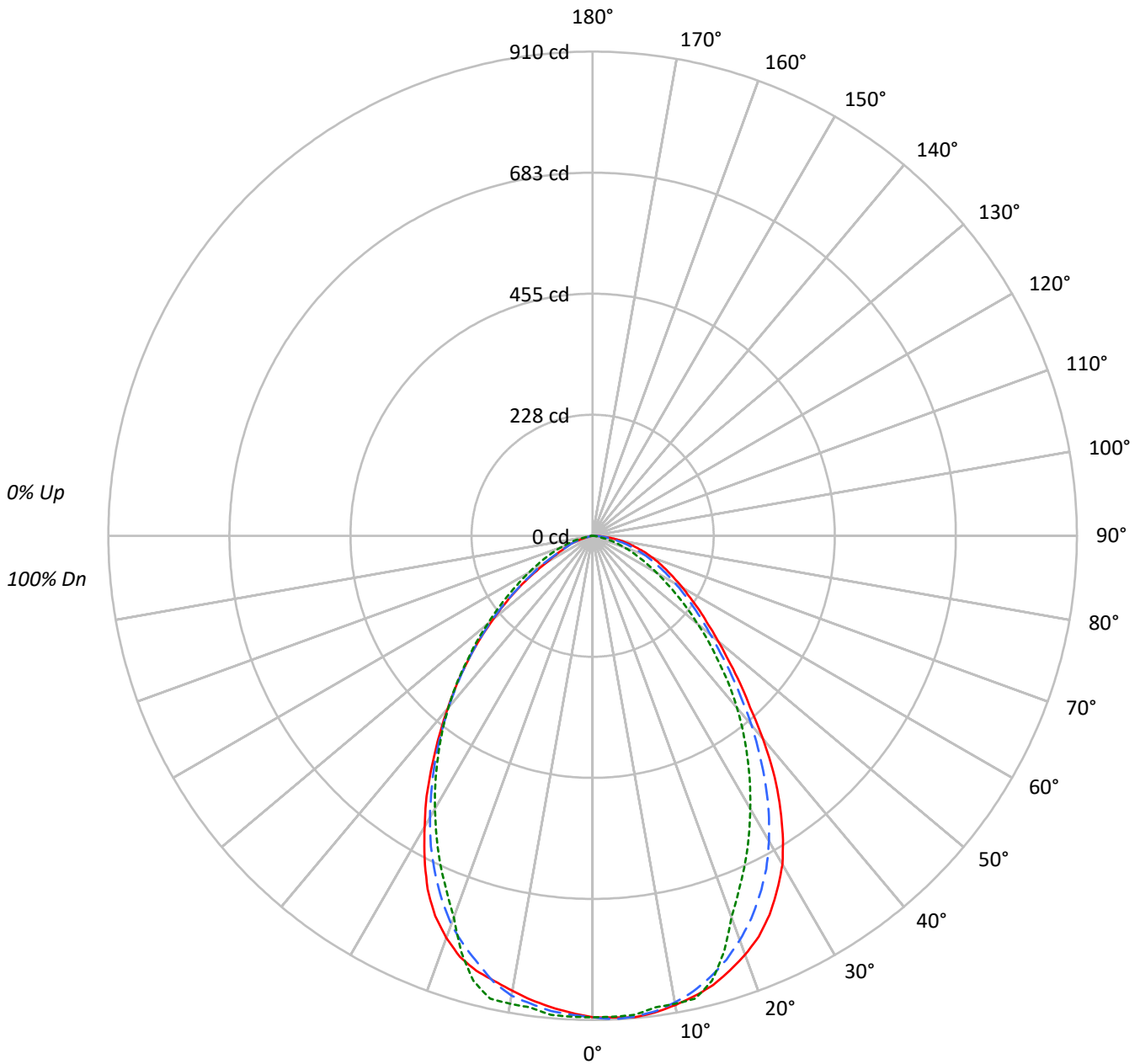
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59036	59036	59036
5°	59491	59183	58260
10°	59324	59165	57529
15°	59052	58498	57147
20°	58173	52952	55806
25°	56595	48813	52787
30°	53735	44620	47543
35°	48766	40340	41837
40°	42336	35931	36034
45°	36103	30899	30576
50°	31251	26125	24694
55°	27935	21793	19109
60°	25457	18098	12878
65°	23758	14882	9617
70°	22642	12113	8069
75°	21325	8596	2672
80°	20326	4433	902
85°	16693	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	5.4
10°-20°	239.0	15.0
20°-30°	329.9	20.7
30°-40°	335.7	21.0
40°-50°	269.8	16.9
50°-60°	179.4	11.2
60°-70°	102.2	6.4
70°-80°	45.9	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°	654.3	41.0
0°-40°	990.0	62.0
0°-60°	1439.2	90.1
0°-90°	1597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	905	905	905	905	905	
5°	908	907	904	897	890	86
15°	874	858	866	832	846	246
25°	786	744	678	700	733	360
35°	612	565	506	516	525	380
45°	391	368	335	331	331	303
55°	246	229	192	170	168	221
65°	154	138	96	62	62	153
75°	85	70	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°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
2.5°	906.0	910.7	909.6	908.4	909.6	908.4	906.0	906.0	903.7	903.7	909.6
5°	908.4	910.7	909.6	908.4	908.4	909.6	904.9	904.9	902.5	901.3	907.2
7.5°	903.7	907.2	904.9	904.9	903.7	904.9	900.2	900.2	896.6	895.5	901.3
10°	895.5	900.2	897.8	897.8	897.8	895.5	893.1	891.9	888.4	887.2	890.8
12.5°	886.1	889.6	888.4	886.1	886.1	886.1	881.4	880.2	875.5	873.1	876.7
15°	874.3	876.7	875.5	874.3	872.0	872.0	867.3	864.9	860.2	855.5	857.9
17.5°	856.7	860.2	857.9	856.7	853.2	853.2	848.5	846.1	839.1	834.4	835.5
20°	837.9	839.1	837.9	835.5	832.0	830.8	826.1	821.4	815.6	809.7	808.5
22.5°	815.6	816.7	813.2	810.9	807.3	806.2	800.3	796.8	787.4	780.3	779.1
25°	786.2	787.4	787.4	781.5	779.1	776.8	770.9	765.0	756.8	747.4	743.9
27.5°	750.9	754.5	752.1	746.2	741.5	740.4	734.5	729.8	719.2	711.0	706.3
30°	713.3	712.1	711.0	707.4	700.4	699.2	693.3	687.5	679.2	668.7	662.8
32.5°	665.1	665.1	664.0	660.4	653.4	651.0	646.3	639.3	629.9	621.7	615.8
35°	612.3	613.4	612.3	605.2	600.5	598.2	595.8	587.6	579.4	570.0	565.3
37.5°	557.0	553.5	554.7	548.8	542.9	545.3	538.2	534.7	525.3	518.2	513.5
40°	497.1	499.4	494.7	492.4	488.9	485.3	485.3	479.5	474.8	466.5	464.2
42.5°	438.3	441.9	440.7	438.3	433.6	434.8	428.9	426.6	420.7	417.2	413.7
45°	391.3	391.3	391.3	389.0	387.8	385.5	381.9	378.4	374.9	370.2	367.8
47.5°	345.5	345.5	346.7	344.3	342.0	340.8	338.4	338.4	332.6	327.9	325.5
50°	307.9	307.9	307.9	305.5	303.2	303.2	300.8	298.5	295.0	291.4	289.1
52.5°	273.8	273.8	273.8	271.5	270.3	269.1	267.9	266.8	262.1	259.7	257.4
55°	245.6	244.4	244.4	243.3	240.9	240.9	239.7	237.4	233.9	230.3	229.2
57.5°	217.4	218.6	217.4	217.4	215.1	215.1	212.7	211.5	208.0	205.7	203.3
60°	195.1	195.1	195.1	193.9	191.6	192.7	190.4	189.2	185.7	182.1	179.8
62.5°	172.7	173.9	173.9	172.7	170.4	170.4	169.2	168.0	164.5	161.0	157.5
65°	153.9	153.9	153.9	152.8	151.6	151.6	150.4	149.2	145.7	141.0	137.5
67.5°	136.3	135.1	135.1	135.1	134.0	132.8	131.6	130.4	126.9	123.4	118.7
70°	118.7	118.7	118.7	117.5	115.2	116.3	115.2	114.0	110.5	106.9	103.4
72.5°	102.2	102.2	101.1	99.9	99.9	98.7	98.7	97.5	94.0	89.3	85.8
75°	84.6	84.6	84.6	84.6	82.3	83.4	81.1	79.9	77.6	74.0	70.5
77.5°	69.3	69.3	69.3	68.2	67.0	67.0	65.8	64.6	61.1	58.8	54.1
80°	54.1	54.1	54.1	54.1	52.9	51.7	50.5	49.4	47.0	43.5	40.0
82.5°	40.0	40.0	38.8	38.8	38.8	37.6	36.4	35.3	32.9	30.6	28.2
85°	22.3	23.5	23.5	21.2	22.3	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°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
2.5°	904.9	903.7	908.4	908.4	901.3	904.9	906.0	903.7	903.7	904.9	901.3
5°	902.5	900.2	904.9	906.0	899.0	902.5	903.7	901.3	902.5	903.7	899.0
7.5°	894.3	894.3	897.8	899.0	891.9	895.5	895.5	893.1	894.3	894.3	890.8
10°	886.1	882.5	886.1	886.1	880.2	881.4	883.7	882.5	887.2	893.1	893.1
12.5°	870.8	867.3	873.1	873.1	869.6	874.3	880.2	883.7	888.4	890.8	883.7
15°	852.0	853.2	863.7	872.0	868.4	875.5	881.4	879.0	873.1	866.1	855.5
17.5°	827.3	823.8	833.2	837.9	833.2	835.5	840.2	835.5	826.1	820.3	806.2
20°	799.1	789.7	789.7	787.4	779.1	779.1	778.0	769.7	766.2	762.7	756.8
22.5°	767.4	756.8	753.3	746.2	739.2	738.0	734.5	726.2	721.5	719.2	712.1
25°	730.9	721.5	715.7	708.6	698.0	695.7	692.2	683.9	681.6	678.1	672.2
27.5°	693.3	681.6	673.4	666.3	656.9	655.7	648.7	642.8	638.1	635.8	631.1
30°	649.9	636.9	631.1	621.7	614.6	612.3	606.4	598.2	594.6	592.3	588.8
32.5°	601.7	591.1	585.2	577.0	567.6	568.8	561.7	554.7	552.3	550.0	546.4
35°	554.7	544.1	537.0	530.0	524.1	521.8	517.1	511.2	507.7	506.5	504.1
37.5°	503.0	494.7	488.9	481.8	477.1	474.8	472.4	466.5	464.2	464.2	459.5
40°	452.4	445.4	440.7	437.2	431.3	430.1	427.8	424.2	423.1	421.9	418.4
42.5°	406.6	397.2	393.7	391.3	387.8	385.5	384.3	381.9	380.8	379.6	376.1
45°	363.1	354.9	351.4	349.0	345.5	344.3	343.1	339.6	337.3	334.9	333.7
47.5°	320.8	314.9	313.8	307.9	305.5	303.2	300.8	298.5	297.3	296.1	291.4
50°	284.4	280.9	275.0	271.5	269.1	267.9	263.2	259.7	258.5	257.4	253.8
52.5°	251.5	246.8	243.3	237.4	236.2	233.9	231.5	226.8	224.5	223.3	219.8
55°	222.1	218.6	213.9	209.2	205.7	204.5	201.0	196.3	193.9	191.6	189.2
57.5°	197.4	191.6	186.9	182.1	179.8	176.3	172.7	170.4	166.9	163.3	159.8
60°	173.9	169.2	163.3	158.6	156.3	153.9	149.2	145.7	142.2	138.7	135.1
62.5°	151.6	146.9	141.0	136.3	134.0	131.6	126.9	123.4	119.9	116.3	111.6
65°	131.6	126.9	122.2	117.5	115.2	112.8	108.1	103.4	99.9	96.4	91.7
67.5°	115.2	109.3	104.6	99.9	97.5	95.2	90.5	87.0	82.3	78.7	74.0
70°	97.5	92.8	89.3	84.6	82.3	79.9	75.2	70.5	67.0	63.5	58.8
72.5°	82.3	76.4	72.9	68.2	65.8	64.6	59.9	56.4	52.9	48.2	44.7
75°	65.8	61.1	56.4	52.9	50.5	49.4	44.7	41.1	37.6	34.1	30.6
77.5°	50.5	47.0	42.3	38.8	36.4	35.3	30.6	27.0	23.5	21.2	17.6
80°	37.6	32.9	30.6	27.0	25.9	23.5	21.2	17.6	15.3	11.8	9.4
82.5°	25.9	22.3	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°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
2.5°	903.7	903.7	903.7	902.5	902.5	902.5	901.3	906.0	901.3	900.2	903.7
5°	902.5	900.2	900.2	900.2	900.2	899.0	897.8	900.2	896.6	895.5	895.5
7.5°	895.5	894.3	894.3	893.1	891.9	890.8	889.6	890.8	887.2	886.1	886.1
10°	896.6	894.3	894.3	890.8	888.4	884.9	881.4	882.5	877.8	874.3	874.3
12.5°	882.5	876.7	873.1	869.6	867.3	866.1	861.4	863.7	859.0	857.9	857.9
15°	850.8	843.8	837.9	835.5	835.5	833.2	829.7	834.4	832.0	833.2	839.1
17.5°	801.5	797.9	794.4	793.2	794.4	796.8	799.1	806.2	806.2	809.7	815.6
20°	758.0	755.6	758.0	758.0	759.2	763.9	768.6	774.4	776.8	780.3	788.5
22.5°	715.7	715.7	718.0	721.5	720.4	728.6	729.8	740.4	740.4	747.4	754.5
25°	674.5	674.5	676.9	678.1	680.4	685.1	689.8	698.0	700.4	707.4	713.3
27.5°	634.6	633.4	633.4	634.6	636.9	642.8	645.2	654.6	658.1	662.8	668.7
30°	589.9	588.8	591.1	593.5	592.3	598.2	601.7	608.7	611.1	615.8	620.5
32.5°	547.6	547.6	547.6	550.0	550.0	554.7	554.7	562.9	562.9	566.4	571.1
35°	504.1	504.1	505.3	506.5	507.7	508.8	510.0	514.7	515.9	517.1	519.4
37.5°	463.0	461.8	463.0	463.0	460.7	465.4	465.4	470.1	466.5	470.1	471.2
40°	420.7	420.7	419.5	419.5	419.5	421.9	419.5	423.1	420.7	423.1	421.9
42.5°	377.2	377.2	374.9	377.2	376.1	376.1	376.1	378.4	374.9	377.2	378.4
45°	333.7	332.6	332.6	331.4	331.4	331.4	332.6	332.6	331.4	333.7	333.7
47.5°	291.4	290.3	290.3	290.3	290.3	291.4	287.9	290.3	287.9	287.9	287.9
50°	255.0	253.8	252.7	251.5	250.3	250.3	249.1	249.1	246.8	245.6	244.4
52.5°	219.8	218.6	216.2	216.2	215.1	213.9	210.4	210.4	206.8	205.7	205.7
55°	188.0	184.5	183.3	181.0	181.0	178.6	176.3	173.9	170.4	168.0	168.0
57.5°	158.6	155.1	152.8	151.6	150.4	148.1	143.4	142.2	137.5	136.3	135.1
60°	132.8	129.3	125.7	123.4	122.2	118.7	114.0	111.6	109.3	105.8	102.2
62.5°	108.1	104.6	99.9	98.7	96.4	92.8	89.3	85.8	83.4	79.9	77.6
65°	87.0	83.4	79.9	77.6	75.2	71.7	68.2	64.6	62.3	61.1	59.9
67.5°	70.5	65.8	62.3	61.1	58.8	56.4	52.9	51.7	49.4	49.4	49.4
70°	55.2	51.7	48.2	47.0	45.8	43.5	41.1	41.1	41.1	41.1	41.1
72.5°	41.1	38.8	35.3	34.1	32.9	31.7	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°	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
2.5°	897.8	901.3	897.8	901.3	901.3	901.3	901.3	897.8
5°	891.9	894.3	890.8	893.1	894.3	893.1	893.1	889.6
7.5°	881.4	883.7	880.2	883.7	884.9	883.7	882.5	880.2
10°	870.8	872.0	868.4	870.8	873.1	873.1	872.0	868.4
12.5°	854.3	857.9	854.3	856.7	859.0	860.2	860.2	856.7
15°	835.5	841.4	839.1	842.6	846.1	847.3	847.3	846.1
17.5°	816.7	822.6	819.1	825.0	828.5	830.8	832.0	829.7
20°	789.7	796.8	794.4	799.1	803.8	807.3	807.3	803.8
22.5°	754.5	763.9	762.7	766.2	772.1	773.3	775.6	773.3
25°	715.7	722.7	721.5	725.1	732.1	732.1	733.3	733.3
27.5°	671.0	678.1	676.9	679.2	683.9	685.1	686.3	683.9
30°	622.8	626.4	626.4	629.9	633.4	634.6	634.6	631.1
32.5°	570.0	574.7	577.0	575.8	579.4	581.7	580.5	580.5
35°	521.8	522.9	524.1	525.3	526.5	528.8	526.5	525.3
37.5°	470.1	473.6	471.2	473.6	475.9	474.8	473.6	473.6
40°	423.1	424.2	421.9	424.2	425.4	425.4	425.4	423.1
42.5°	376.1	378.4	376.1	378.4	378.4	378.4	378.4	377.2
45°	329.0	331.4	331.4	332.6	332.6	331.4	331.4	331.4
47.5°	285.6	287.9	285.6	287.9	289.1	286.7	286.7	286.7
50°	244.4	243.3	243.3	244.4	244.4	244.4	244.4	243.3
52.5°	202.1	203.3	203.3	203.3	204.5	203.3	204.5	204.5
55°	165.7	165.7	165.7	166.9	165.7	165.7	166.9	168.0
57.5°	132.8	131.6	130.4	130.4	131.6	130.4	130.4	130.4
60°	102.2	101.1	99.9	99.9	99.9	99.9	99.9	98.7
62.5°	76.4	76.4	76.4	77.6	77.6	77.6	77.6	78.7
65°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	62.3
67.5°	49.4	49.4	49.4	50.5	50.5	50.5	50.5	50.5
70°	41.1	41.1	42.3	41.1	42.3	42.3	42.3	42.3
72.5°	28.2	28.2	28.2	28.2	28.2	27.0	28.2	27.0
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)