

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: P252466

Luminaire Tested: **LD6B20D010 EU6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252466
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: LD6B20D010 EU6B10208027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 1656.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

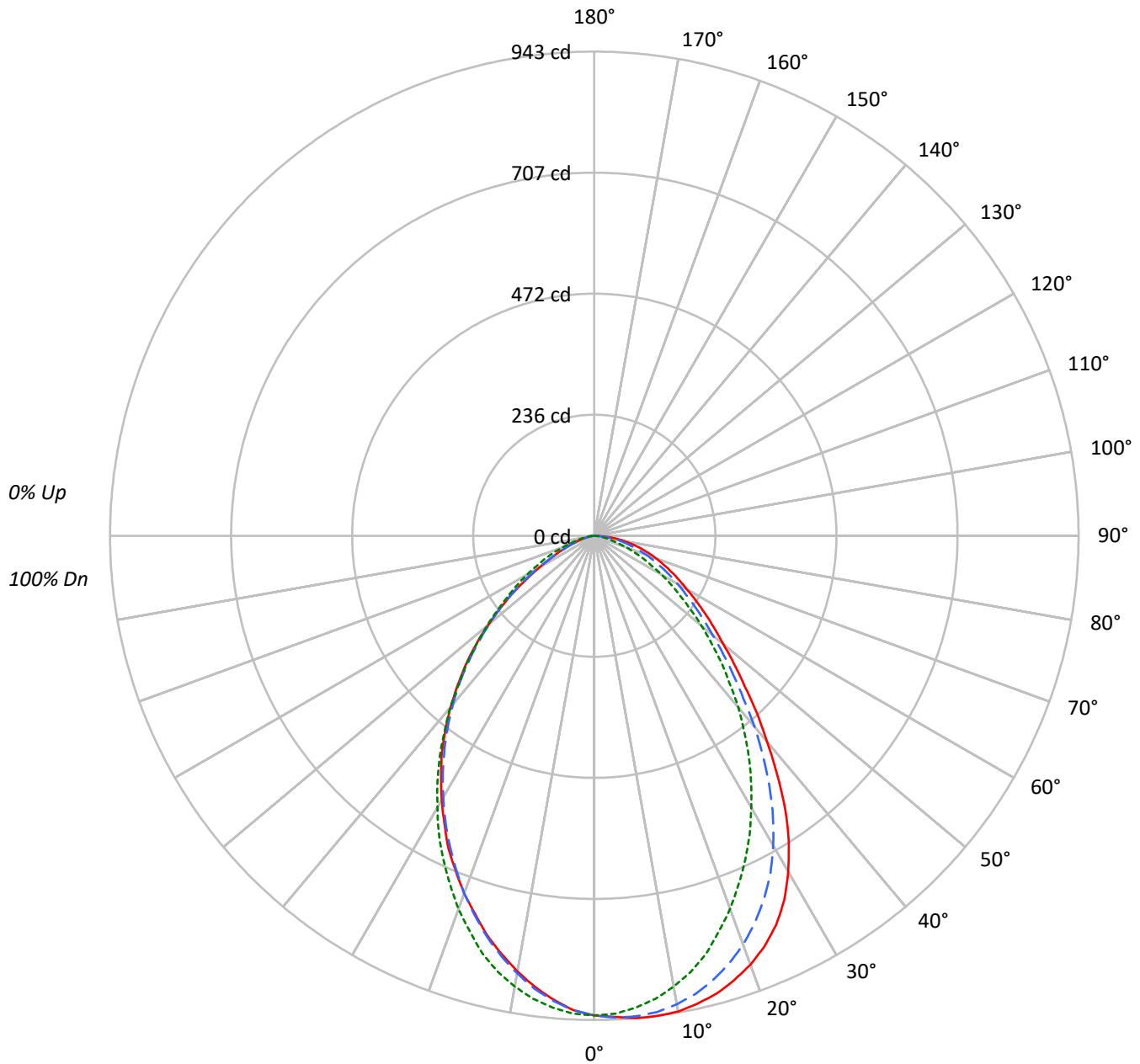
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	60948	60948	60948
5°	61777	60421	59399
10°	62319	59053	57078
15°	62314	56877	54425
20°	61707	53688	51439
25°	60244	50066	48381
30°	56892	46036	44771
35°	51570	41749	41232
40°	44533	37132	37021
45°	38188	32320	32560
50°	33189	27658	27262
55°	29812	23317	21839
60°	27088	19637	16088
65°	25441	16225	11825
70°	24264	12628	8660
75°	23216	9150	5898
80°	21941	6349	3907
85°	19462	3892	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	5.3
10°-20°	239.3	14.5
20°-30°	332.3	20.1
30°-40°	344.2	20.8
40°-50°	282.8	17.1
50°-60°	194.4	11.7
60°-70°	111.7	6.7
70°-80°	51.4	3.1
80°-90°	12.5	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°	659.0	39.8
0°-40°	1003.2	60.6
0°-60°	1480.4	89.4
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	934	934	934	934	934	
5°	943	939	923	910	907	90
15°	923	895	842	808	806	260
25°	837	781	696	666	672	383
35°	648	594	524	509	518	402
45°	414	383	350	346	353	322
55°	262	237	205	193	192	236
65°	165	144	105	74	77	164
75°	92	73	36	23	23	97
85°	26	18	5	3	3	29
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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	938.1	945.9	940.7	939.4	942.0	942.0	942.0	938.1	940.7	936.8	939.4
5°	943.3	949.8	944.6	942.0	944.6	945.9	942.0	939.4	943.3	938.1	939.4
7.5°	943.3	949.8	944.6	943.3	944.6	944.6	943.3	938.1	940.7	935.5	935.5
10°	940.7	945.9	940.7	938.1	939.4	938.1	938.1	931.6	932.9	926.4	926.4
12.5°	932.9	939.4	932.9	930.3	930.3	930.3	926.4	921.3	922.6	914.8	913.5
15°	922.6	927.7	921.3	918.7	918.7	917.4	914.8	907.0	907.0	899.2	895.3
17.5°	907.0	912.2	907.0	903.1	901.8	899.2	896.6	888.8	886.2	877.1	873.2
20°	888.8	892.7	887.5	883.6	881.0	878.4	873.2	865.5	862.9	853.8	847.3
22.5°	865.5	870.6	862.9	859.0	856.4	852.5	847.3	839.5	835.6	823.9	816.2
25°	836.9	839.5	833.0	829.1	823.9	821.3	817.5	807.1	803.2	790.2	781.1
27.5°	800.6	803.2	795.4	792.8	786.3	783.7	778.5	769.4	764.3	751.3	742.2
30°	755.2	757.8	752.6	748.7	743.5	738.3	734.4	725.3	717.5	704.6	696.8
32.5°	704.6	708.5	703.3	698.1	689.0	690.3	683.8	674.7	668.2	656.6	647.5
35°	647.5	650.1	643.6	642.3	637.1	631.9	625.4	618.9	615.0	602.1	594.3
37.5°	583.9	590.4	583.9	578.7	576.1	572.2	568.3	559.2	556.6	548.9	538.5
40°	522.9	526.8	522.9	517.7	513.8	513.8	508.6	503.4	497.0	489.2	485.3
42.5°	468.4	465.8	464.5	461.9	456.7	455.4	454.1	447.7	443.8	436.0	429.5
45°	413.9	415.2	412.6	411.3	407.4	404.8	402.2	397.0	395.7	388.0	382.8
47.5°	368.5	367.2	364.6	364.6	362.0	359.4	356.8	352.9	351.6	345.1	340.0
50°	327.0	328.3	327.0	325.7	321.8	320.5	317.9	315.3	312.7	306.2	301.0
52.5°	293.2	291.9	290.6	290.6	286.8	285.5	282.9	280.3	277.7	271.2	267.3
55°	262.1	262.1	260.8	259.5	255.6	254.3	253.0	250.4	246.5	241.3	237.4
57.5°	233.6	233.6	232.3	231.0	228.4	228.4	225.8	223.2	220.6	215.4	210.2
60°	207.6	208.9	207.6	206.3	203.7	203.7	202.4	198.5	197.2	190.7	186.8
62.5°	185.5	185.5	185.5	184.3	183.0	180.4	180.4	176.5	173.9	170.0	164.8
65°	164.8	164.8	164.8	163.5	160.9	159.6	158.3	155.7	153.1	149.2	144.0
67.5°	145.3	145.3	145.3	144.0	141.4	140.1	138.8	137.5	133.6	129.8	124.6
70°	127.2	127.2	125.9	124.6	123.3	122.0	120.7	118.1	115.5	110.3	106.4
72.5°	109.0	109.0	109.0	106.4	105.1	105.1	102.5	101.2	98.6	93.4	89.5
75°	92.1	90.8	90.8	89.5	88.2	86.9	85.6	84.3	80.4	77.9	72.7
77.5°	75.3	75.3	74.0	72.7	72.7	71.4	70.1	67.5	66.2	62.3	58.4
80°	58.4	58.4	58.4	58.4	57.1	55.8	55.8	53.2	51.9	48.0	45.4
82.5°	44.1	42.8	42.8	42.8	41.5	40.2	40.2	38.9	37.6	35.0	32.4
85°	26.0	24.7	24.7	24.7	23.4	23.4	22.1	22.1	20.8	18.2	18.2
87.5°	7.8	7.8	9.1	9.1	7.8	7.8	7.8	7.8	7.8	6.5	6.5
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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	936.8	940.7	935.5	934.2	939.4	936.8	935.5	932.9	934.2	931.6	927.7
5°	935.5	940.7	934.2	930.3	936.8	932.9	930.3	927.7	927.7	922.6	920.0
7.5°	931.6	934.2	927.7	923.8	927.7	923.8	921.3	917.4	916.1	909.6	905.7
10°	921.3	923.8	916.1	910.9	914.8	909.6	905.7	901.8	899.2	891.4	886.2
12.5°	907.0	908.3	899.2	892.7	895.3	891.4	884.9	879.7	877.1	869.4	862.9
15°	887.5	888.8	878.4	869.4	871.9	866.8	859.0	853.8	849.9	842.1	833.0
17.5°	864.2	862.9	851.2	842.1	843.4	836.9	829.1	821.3	816.2	807.1	800.6
20°	838.2	834.3	821.3	811.0	812.3	804.5	795.4	787.6	781.1	773.3	764.3
22.5°	805.8	800.6	788.9	775.9	777.2	770.7	757.8	751.3	744.8	734.4	726.6
25°	770.7	763.0	751.3	738.3	738.3	730.5	720.1	712.3	705.9	695.5	686.4
27.5°	729.2	725.3	709.8	699.4	698.1	690.3	681.2	672.1	664.3	655.3	646.2
30°	683.8	677.3	665.6	654.0	651.4	644.9	635.8	625.4	620.2	611.1	603.4
32.5°	635.8	629.3	616.3	604.7	603.4	598.2	590.4	580.0	574.8	568.3	563.1
35°	581.3	578.7	565.7	556.6	556.6	551.5	543.7	534.6	530.7	524.2	517.7
37.5°	529.4	525.5	513.8	506.0	506.0	499.6	491.8	487.9	484.0	478.8	474.9
40°	474.9	472.3	463.2	455.4	456.7	451.5	446.4	441.2	438.6	436.0	432.1
42.5°	424.3	421.7	415.2	408.7	408.7	404.8	399.6	395.7	393.2	389.3	388.0
45°	378.9	375.0	369.8	363.3	363.3	359.4	356.8	354.2	352.9	350.3	346.4
47.5°	334.8	332.2	327.0	320.5	320.5	320.5	315.3	311.4	311.4	308.8	307.5
50°	297.1	293.2	289.4	284.2	284.2	281.6	277.7	273.8	273.8	272.5	269.9
52.5°	262.1	259.5	254.3	249.1	249.1	246.5	242.6	241.3	240.0	236.2	234.9
55°	232.3	229.7	225.8	219.3	218.0	216.7	212.8	210.2	208.9	205.0	205.0
57.5°	205.0	202.4	195.9	192.0	190.7	188.1	184.3	181.7	180.4	177.8	175.2
60°	181.7	177.8	172.6	167.4	166.1	163.5	159.6	157.0	155.7	150.5	147.9
62.5°	159.6	155.7	150.5	145.3	144.0	141.4	136.2	133.6	131.1	125.9	123.3
65°	138.8	134.9	129.8	124.6	122.0	120.7	115.5	111.6	109.0	105.1	99.9
67.5°	119.4	115.5	110.3	103.8	103.8	99.9	96.0	92.1	88.2	84.3	80.4
70°	101.2	97.3	92.1	86.9	85.6	83.0	79.1	74.0	71.4	66.2	62.3
72.5°	84.3	80.4	75.3	70.1	68.8	66.2	62.3	57.1	53.2	49.3	45.4
75°	68.8	64.9	59.7	55.8	54.5	51.9	48.0	42.8	38.9	36.3	32.4
77.5°	54.5	50.6	46.7	42.8	41.5	38.9	35.0	32.4	28.5	26.0	22.1
80°	41.5	38.9	35.0	32.4	31.1	28.5	26.0	22.1	19.5	16.9	15.6
82.5°	29.8	27.2	24.7	20.8	20.8	18.2	16.9	14.3	11.7	10.4	9.1
85°	16.9	14.3	13.0	11.7	10.4	10.4	9.1	7.8	6.5	5.2	5.2
87.5°	5.2	5.2	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6
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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	927.7	929.0	926.4	929.0	926.4	927.7	925.1	927.7	925.1	927.7	922.6
5°	918.7	918.7	914.8	917.4	914.8	916.1	910.9	912.2	909.6	912.2	907.0
7.5°	903.1	904.4	897.9	900.5	896.6	896.6	892.7	894.0	890.1	891.4	887.5
10°	884.9	883.6	877.1	879.7	874.5	874.5	870.6	870.6	865.5	866.8	861.6
12.5°	859.0	857.7	849.9	852.5	847.3	847.3	843.4	843.4	838.2	840.8	835.6
15°	829.1	827.8	820.0	821.3	816.2	816.2	811.0	812.3	808.4	811.0	805.8
17.5°	795.4	794.1	786.3	787.6	781.1	782.4	778.5	777.2	774.6	775.9	772.0
20°	760.4	757.8	750.0	751.3	748.7	744.8	742.2	743.5	740.9	743.5	739.6
22.5°	724.0	718.8	712.3	712.3	709.8	709.8	705.9	708.5	703.3	707.2	704.6
25°	682.5	678.6	673.4	676.0	670.8	670.8	666.9	668.2	665.6	668.2	665.6
27.5°	642.3	639.7	631.9	634.5	630.6	631.9	628.0	629.3	628.0	630.6	628.0
30°	599.5	598.2	593.0	593.0	591.7	590.4	589.1	589.1	587.8	591.7	589.1
32.5°	559.2	555.3	550.2	554.0	547.6	551.5	548.9	551.5	548.9	551.5	550.2
35°	517.7	516.4	509.9	511.2	509.9	509.9	508.6	508.6	508.6	512.5	512.5
37.5°	473.6	472.3	468.4	469.7	467.1	465.8	465.8	468.4	468.4	471.0	471.0
40°	430.8	432.1	428.2	428.2	426.9	426.9	426.9	429.5	428.2	430.8	429.5
42.5°	388.0	388.0	384.1	385.4	384.1	385.4	385.4	388.0	388.0	389.3	388.0
45°	347.7	347.7	346.4	347.7	345.1	346.4	345.1	347.7	346.4	347.7	347.7
47.5°	307.5	307.5	307.5	306.2	306.2	306.2	306.2	306.2	304.9	307.5	306.2
50°	269.9	271.2	269.9	269.9	268.6	269.9	268.6	268.6	266.0	267.3	267.3
52.5°	236.2	236.2	233.6	233.6	233.6	232.3	232.3	232.3	231.0	231.0	228.4
55°	203.7	203.7	201.1	201.1	199.8	198.5	197.2	197.2	193.3	193.3	189.4
57.5°	173.9	172.6	168.7	168.7	166.1	164.8	163.5	162.2	159.6	157.0	155.7
60°	146.6	144.0	141.4	140.1	137.5	134.9	132.3	129.8	127.2	125.9	124.6
62.5°	120.7	116.8	114.2	112.9	110.3	106.4	103.8	101.2	98.6	97.3	94.7
65°	97.3	93.4	89.5	88.2	85.6	83.0	79.1	76.6	74.0	72.7	72.7
67.5°	76.6	72.7	67.5	67.5	64.9	62.3	59.7	57.1	55.8	57.1	57.1
70°	57.1	54.5	50.6	49.3	46.7	44.1	42.8	42.8	42.8	44.1	42.8
72.5°	42.8	38.9	36.3	35.0	33.7	32.4	32.4	32.4	31.1	32.4	32.4
75°	29.8	27.2	24.7	24.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4
77.5°	20.8	18.2	16.9	16.9	16.9	15.6	15.6	15.6	15.6	15.6	15.6
80°	13.0	13.0	11.7	11.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
82.5°	7.8	7.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	922.6	926.4	921.3	925.1	923.8	922.6	920.0	925.1
5°	907.0	908.3	903.1	908.3	907.0	904.4	901.8	907.0
7.5°	884.9	888.8	882.3	887.5	886.2	883.6	881.0	886.2
10°	860.3	864.2	859.0	862.9	862.9	860.3	856.4	861.6
12.5°	833.0	835.6	830.4	835.6	834.3	831.7	830.4	834.3
15°	803.2	807.1	801.9	805.8	804.5	803.2	801.9	805.8
17.5°	770.7	774.6	770.7	774.6	774.6	770.7	769.4	772.0
20°	738.3	740.9	737.0	740.9	739.6	739.6	737.0	740.9
22.5°	702.0	705.9	703.3	705.9	704.6	704.6	703.3	705.9
25°	665.6	669.5	665.6	669.5	668.2	668.2	665.6	672.1
27.5°	629.3	631.9	628.0	633.2	631.9	629.3	630.6	631.9
30°	590.4	593.0	590.4	594.3	594.3	594.3	591.7	594.3
32.5°	551.5	555.3	551.5	555.3	554.0	554.0	552.8	555.3
35°	512.5	513.8	511.2	515.1	515.1	516.4	513.8	517.7
37.5°	472.3	473.6	472.3	473.6	476.2	472.3	474.9	476.2
40°	430.8	433.4	432.1	433.4	433.4	434.7	433.4	434.7
42.5°	389.3	391.9	389.3	393.2	391.9	391.9	393.2	393.2
45°	346.4	350.3	347.7	350.3	351.6	350.3	350.3	352.9
47.5°	306.2	308.8	307.5	308.8	308.8	308.8	308.8	311.4
50°	266.0	267.3	267.3	268.6	268.6	269.9	267.3	268.6
52.5°	225.8	228.4	228.4	228.4	227.1	228.4	228.4	228.4
55°	189.4	190.7	188.1	190.7	190.7	189.4	189.4	192.0
57.5°	154.4	154.4	154.4	154.4	154.4	153.1	154.4	154.4
60°	122.0	123.3	122.0	122.0	122.0	122.0	120.7	123.3
62.5°	94.7	94.7	93.4	94.7	94.7	94.7	96.0	96.0
65°	74.0	75.3	74.0	75.3	75.3	75.3	75.3	76.6
67.5°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
70°	44.1	44.1	44.1	45.4	44.1	44.1	44.1	45.4
72.5°	32.4	32.4	32.4	32.4	32.4	32.4	33.7	33.7
75°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
77.5°	15.6	15.6	15.6	16.9	15.6	16.9	15.6	15.6
80°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
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)