

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: P252471

Luminaire Tested: **LD6B20D010 EU6B10209024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252471
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 EU6B10209024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1250.0 lumens
Efficiency: N/A
Efficacy: 60.1 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

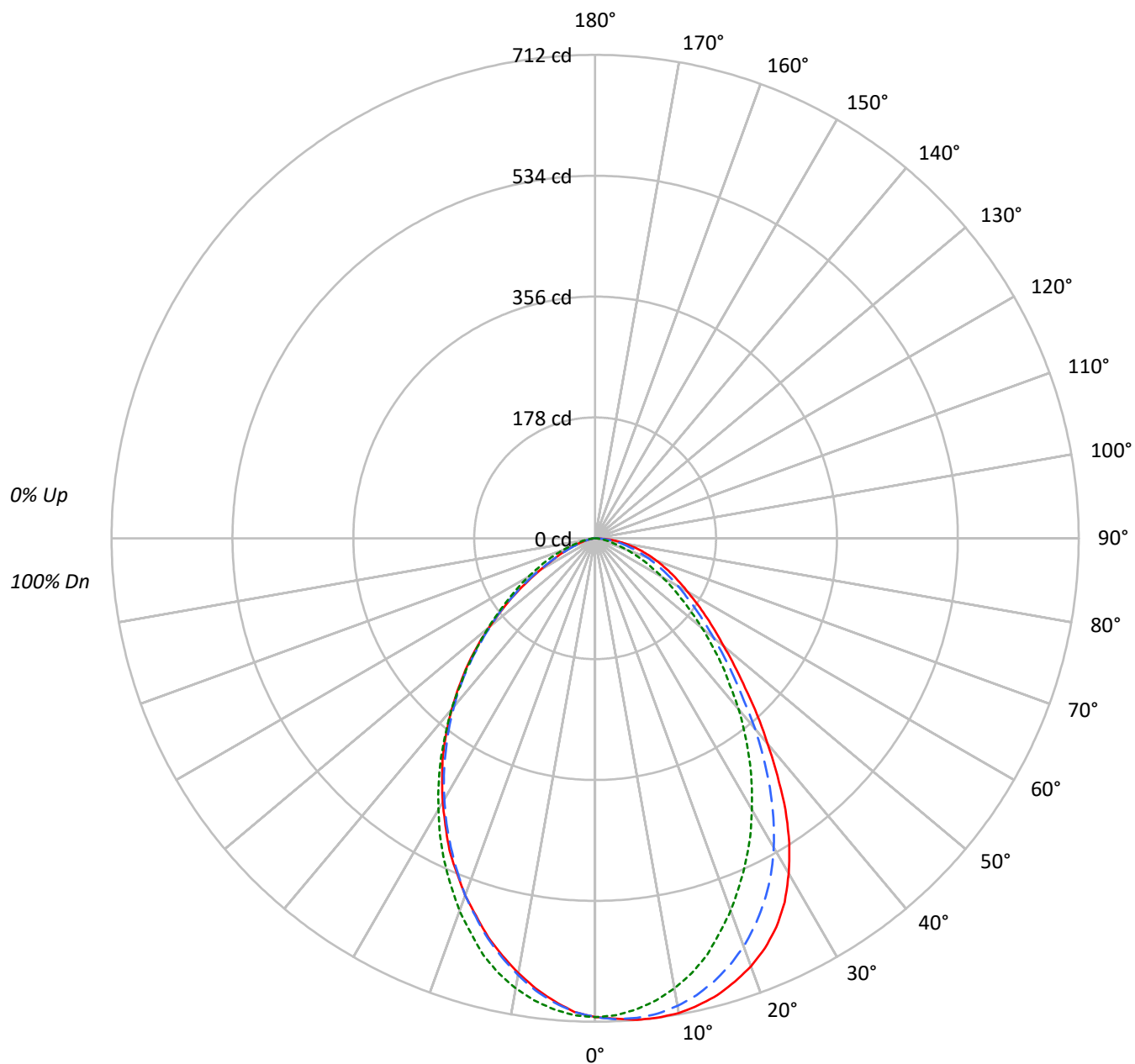
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46008	46008	46008
5°	46629	45607	44834
10°	47042	44578	43080
15°	47036	42930	41079
20°	46579	40525	38831
25°	45473	37792	36518
30°	42940	34751	33795
35°	38922	31515	31125
40°	33615	28028	27943
45°	28823	24395	24579
50°	25049	20878	20573
55°	22498	17596	16493
60°	20446	14823	12135
65°	19204	12242	8923
70°	18312	9538	6543
75°	17519	6907	4436
80°	16569	4771	2931
85°	14672	2919	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	5.3
10°-20°	180.7	14.5
20°-30°	250.8	20.1
30°-40°	259.8	20.8
40°-50°	213.5	17.1
50°-60°	146.7	11.7
60°-70°	84.3	6.7
70°-80°	38.8	3.1
80°-90°	9.4	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°	497.4	39.8
0°-40°	757.2	60.6
0°-60°	1117.4	89.4
0°-90°	1250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	705	705	705	705	705	
5°	712	709	696	687	685	68
15°	696	676	636	610	608	196
25°	632	590	525	502	507	289
35°	489	449	396	384	391	303
45°	312	289	264	262	266	243
55°	198	179	155	146	145	178
65°	124	109	79	56	58	124
75°	70	55	27	18	18	73
85°	20	14	4	2	2	22
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°	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2
2.5°	708.1	714.0	710.1	709.1	711.1	711.1	711.1	708.1	710.1	707.1	709.1
5°	712.0	716.9	713.0	711.1	713.0	714.0	711.1	709.1	712.0	708.1	709.1
7.5°	712.0	716.9	713.0	712.0	713.0	713.0	712.0	708.1	710.1	706.2	706.2
10°	710.1	714.0	710.1	708.1	709.1	708.1	708.1	703.2	704.2	699.3	699.3
12.5°	704.2	709.1	704.2	702.2	702.2	702.2	699.3	695.4	696.4	690.5	689.5
15°	696.4	700.3	695.4	693.4	693.4	692.5	690.5	684.6	684.6	678.7	675.8
17.5°	684.6	688.5	684.6	681.7	680.7	678.7	676.8	670.9	668.9	662.1	659.2
20°	670.9	673.8	669.9	667.0	665.0	663.1	659.2	653.3	651.3	644.5	639.6
22.5°	653.3	657.2	651.3	648.4	646.4	643.5	639.6	633.7	630.7	621.9	616.1
25°	631.7	633.7	628.8	625.9	621.9	620.0	617.0	609.2	606.3	596.5	589.6
27.5°	604.3	606.3	600.4	598.4	593.5	591.6	587.7	580.8	576.9	567.1	560.2
30°	570.0	572.0	568.1	565.1	561.2	557.3	554.4	547.5	541.6	531.8	526.0
32.5°	531.8	534.8	530.8	526.9	520.1	521.1	516.2	509.3	504.4	495.6	488.7
35°	488.7	490.7	485.8	484.8	480.9	477.0	472.1	467.2	464.2	454.5	448.6
37.5°	440.7	445.6	440.7	436.8	434.9	431.9	429.0	422.1	420.2	414.3	406.5
40°	394.7	397.6	394.7	390.8	387.9	387.9	383.9	380.0	375.1	369.2	366.3
42.5°	353.6	351.6	350.6	348.7	344.8	343.8	342.8	337.9	335.0	329.1	324.2
45°	312.4	313.4	311.5	310.5	307.5	305.6	303.6	299.7	298.7	292.8	288.9
47.5°	278.2	277.2	275.2	275.2	273.3	271.3	269.3	266.4	265.4	260.5	256.6
50°	246.8	247.8	246.8	245.8	242.9	241.9	240.0	238.0	236.0	231.1	227.2
52.5°	221.3	220.4	219.4	219.4	216.5	215.5	213.5	211.6	209.6	204.7	201.8
55°	197.8	197.8	196.9	195.9	192.9	192.0	191.0	189.0	186.1	182.2	179.2
57.5°	176.3	176.3	175.3	174.3	172.4	172.4	170.4	168.5	166.5	162.6	158.7
60°	156.7	157.7	156.7	155.7	153.8	153.8	152.8	149.9	148.9	144.0	141.0
62.5°	140.1	140.1	140.1	139.1	138.1	136.1	136.1	133.2	131.2	128.3	124.4
65°	124.4	124.4	124.4	123.4	121.4	120.5	119.5	117.5	115.6	112.6	108.7
67.5°	109.7	109.7	109.7	108.7	106.8	105.8	104.8	103.8	100.9	97.9	94.0
70°	96.0	96.0	95.0	94.0	93.0	92.1	91.1	89.1	87.2	83.3	80.3
72.5°	82.3	82.3	82.3	80.3	79.3	79.3	77.4	76.4	74.4	70.5	67.6
75°	69.5	68.6	68.6	67.6	66.6	65.6	64.6	63.7	60.7	58.8	54.8
77.5°	56.8	56.8	55.8	54.8	54.8	53.9	52.9	50.9	50.0	47.0	44.1
80°	44.1	44.1	44.1	44.1	43.1	42.1	42.1	40.2	39.2	36.2	34.3
82.5°	33.3	32.3	32.3	32.3	31.3	30.4	30.4	29.4	28.4	26.4	24.5
85°	19.6	18.6	18.6	18.6	17.6	17.6	16.7	16.7	15.7	13.7	13.7
87.5°	5.9	5.9	6.9	6.9	5.9	5.9	5.9	5.9	5.9	4.9	4.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2
2.5°	707.1	710.1	706.2	705.2	709.1	707.1	706.2	704.2	705.2	703.2	700.3
5°	706.2	710.1	705.2	702.2	707.1	704.2	702.2	700.3	700.3	696.4	694.4
7.5°	703.2	705.2	700.3	697.3	700.3	697.3	695.4	692.5	691.5	686.6	683.6
10°	695.4	697.3	691.5	687.6	690.5	686.6	683.6	680.7	678.7	672.9	668.9
12.5°	684.6	685.6	678.7	673.8	675.8	672.9	668.0	664.0	662.1	656.2	651.3
15°	669.9	670.9	663.1	656.2	658.2	654.3	648.4	644.5	641.5	635.6	628.8
17.5°	652.3	651.3	642.5	635.6	636.6	631.7	625.9	620.0	616.1	609.2	604.3
20°	632.7	629.8	620.0	612.1	613.1	607.2	600.4	594.5	589.6	583.7	576.9
22.5°	608.2	604.3	595.5	585.7	586.7	581.8	572.0	567.1	562.2	554.4	548.5
25°	581.8	575.9	567.1	557.3	557.3	551.4	543.6	537.7	532.8	525.0	518.1
27.5°	550.4	547.5	535.7	527.9	526.9	521.1	514.2	507.3	501.5	494.6	487.8
30°	516.2	511.3	502.4	493.6	491.7	486.8	479.9	472.1	468.2	461.3	455.4
32.5°	479.9	475.0	465.2	456.4	455.4	451.5	445.6	437.8	433.9	429.0	425.1
35°	438.8	436.8	427.0	420.2	420.2	416.3	410.4	403.5	400.6	395.7	390.8
37.5°	399.6	396.7	387.9	382.0	382.0	377.1	371.2	368.3	365.3	361.4	358.5
40°	358.5	356.5	349.7	343.8	344.8	340.8	336.9	333.0	331.0	329.1	326.1
42.5°	320.3	318.3	313.4	308.5	308.5	305.6	301.7	298.7	296.8	293.8	292.8
45°	286.0	283.1	279.1	274.2	274.2	271.3	269.3	267.4	266.4	264.4	261.5
47.5°	252.7	250.7	246.8	241.9	241.9	241.9	238.0	235.1	235.1	233.1	232.1
50°	224.3	221.3	218.4	214.5	214.5	212.5	209.6	206.7	206.7	205.7	203.7
52.5°	197.8	195.9	192.0	188.0	188.0	186.1	183.2	182.2	181.2	178.3	177.3
55°	175.3	173.4	170.4	165.5	164.5	163.6	160.6	158.7	157.7	154.7	154.7
57.5°	154.7	152.8	147.9	145.0	144.0	142.0	139.1	137.1	136.1	134.2	132.2
60°	137.1	134.2	130.3	126.3	125.4	123.4	120.5	118.5	117.5	113.6	111.7
62.5°	120.5	117.5	113.6	109.7	108.7	106.8	102.8	100.9	98.9	95.0	93.0
65°	104.8	101.9	97.9	94.0	92.1	91.1	87.2	84.2	82.3	79.3	75.4
67.5°	90.1	87.2	83.3	78.4	78.4	75.4	72.5	69.5	66.6	63.7	60.7
70°	76.4	73.5	69.5	65.6	64.6	62.7	59.7	55.8	53.9	50.0	47.0
72.5°	63.7	60.7	56.8	52.9	51.9	50.0	47.0	43.1	40.2	37.2	34.3
75°	51.9	49.0	45.1	42.1	41.1	39.2	36.2	32.3	29.4	27.4	24.5
77.5°	41.1	38.2	35.3	32.3	31.3	29.4	26.4	24.5	21.5	19.6	16.7
80°	31.3	29.4	26.4	24.5	23.5	21.5	19.6	16.7	14.7	12.7	11.8
82.5°	22.5	20.6	18.6	15.7	15.7	13.7	12.7	10.8	8.8	7.8	6.9
85°	12.7	10.8	9.8	8.8	7.8	7.8	6.9	5.9	4.9	3.9	3.9
87.5°	3.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0
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°	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2
2.5°	700.3	701.3	699.3	701.3	699.3	700.3	698.3	700.3	698.3	700.3	696.4
5°	693.4	693.4	690.5	692.5	690.5	691.5	687.6	688.5	686.6	688.5	684.6
7.5°	681.7	682.7	677.8	679.7	676.8	676.8	673.8	674.8	671.9	672.9	669.9
10°	668.0	667.0	662.1	664.0	660.1	660.1	657.2	657.2	653.3	654.3	650.3
12.5°	648.4	647.4	641.5	643.5	639.6	639.6	636.6	636.6	632.7	634.7	630.7
15°	625.9	624.9	619.0	620.0	616.1	616.1	612.1	613.1	610.2	612.1	608.2
17.5°	600.4	599.4	593.5	594.5	589.6	590.6	587.7	586.7	584.7	585.7	582.8
20°	573.9	572.0	566.1	567.1	565.1	562.2	560.2	561.2	559.3	561.2	558.3
22.5°	546.5	542.6	537.7	537.7	535.7	535.7	532.8	534.8	530.8	533.8	531.8
25°	515.2	512.2	508.3	510.3	506.4	506.4	503.4	504.4	502.4	504.4	502.4
27.5°	484.8	482.9	477.0	478.9	476.0	477.0	474.0	475.0	474.0	476.0	474.0
30°	452.5	451.5	447.6	447.6	446.6	445.6	444.7	444.7	443.7	446.6	444.7
32.5°	422.1	419.2	415.3	418.2	413.3	416.3	414.3	416.3	414.3	416.3	415.3
35°	390.8	389.8	384.9	385.9	384.9	384.9	383.9	383.9	383.9	386.9	386.9
37.5°	357.5	356.5	353.6	354.6	352.6	351.6	351.6	353.6	353.6	355.5	355.5
40°	325.2	326.1	323.2	323.2	322.2	322.2	322.2	324.2	323.2	325.2	324.2
42.5°	292.8	292.8	289.9	290.9	289.9	290.9	290.9	292.8	292.8	293.8	292.8
45°	262.5	262.5	261.5	262.5	260.5	261.5	260.5	262.5	261.5	262.5	262.5
47.5°	232.1	232.1	232.1	231.1	231.1	231.1	231.1	231.1	230.2	232.1	231.1
50°	203.7	204.7	203.7	203.7	202.7	203.7	202.7	202.7	200.8	201.8	201.8
52.5°	178.3	178.3	176.3	176.3	176.3	175.3	175.3	175.3	174.3	174.3	172.4
55°	153.8	153.8	151.8	151.8	150.8	149.9	148.9	148.9	145.9	145.9	143.0
57.5°	131.2	130.3	127.3	127.3	125.4	124.4	123.4	122.4	120.5	118.5	117.5
60°	110.7	108.7	106.8	105.8	103.8	101.9	99.9	97.9	96.0	95.0	94.0
62.5°	91.1	88.1	86.2	85.2	83.3	80.3	78.4	76.4	74.4	73.5	71.5
65°	73.5	70.5	67.6	66.6	64.6	62.7	59.7	57.8	55.8	54.8	54.8
67.5°	57.8	54.8	50.9	50.9	49.0	47.0	45.1	43.1	42.1	43.1	43.1
70°	43.1	41.1	38.2	37.2	35.3	33.3	32.3	32.3	32.3	33.3	32.3
72.5°	32.3	29.4	27.4	26.4	25.5	24.5	24.5	24.5	23.5	24.5	24.5
75°	22.5	20.6	18.6	18.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
77.5°	15.7	13.7	12.7	12.7	12.7	11.8	11.8	11.8	11.8	11.8	11.8
80°	9.8	9.8	8.8	8.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	705.2	705.2	705.2	705.2	705.2	705.2	705.2	705.2
2.5°	696.4	699.3	695.4	698.3	697.3	696.4	694.4	698.3
5°	684.6	685.6	681.7	685.6	684.6	682.7	680.7	684.6
7.5°	668.0	670.9	666.0	669.9	668.9	667.0	665.0	668.9
10°	649.4	652.3	648.4	651.3	651.3	649.4	646.4	650.3
12.5°	628.8	630.7	626.8	630.7	629.8	627.8	626.8	629.8
15°	606.3	609.2	605.3	608.2	607.2	606.3	605.3	608.2
17.5°	581.8	584.7	581.8	584.7	584.7	581.8	580.8	582.8
20°	557.3	559.3	556.3	559.3	558.3	558.3	556.3	559.3
22.5°	529.9	532.8	530.8	532.8	531.8	531.8	530.8	532.8
25°	502.4	505.4	502.4	505.4	504.4	504.4	502.4	507.3
27.5°	475.0	477.0	474.0	478.0	477.0	475.0	476.0	477.0
30°	445.6	447.6	445.6	448.6	448.6	448.6	446.6	448.6
32.5°	416.3	419.2	416.3	419.2	418.2	418.2	417.2	419.2
35°	386.9	387.9	385.9	388.8	388.8	389.8	387.9	390.8
37.5°	356.5	357.5	356.5	357.5	359.4	356.5	358.5	359.4
40°	325.2	327.1	326.1	327.1	327.1	328.1	327.1	328.1
42.5°	293.8	295.8	293.8	296.8	295.8	295.8	296.8	296.8
45°	261.5	264.4	262.5	264.4	265.4	264.4	264.4	266.4
47.5°	231.1	233.1	232.1	233.1	233.1	233.1	233.1	235.1
50°	200.8	201.8	201.8	202.7	202.7	203.7	201.8	202.7
52.5°	170.4	172.4	172.4	172.4	171.4	172.4	172.4	172.4
55°	143.0	144.0	142.0	144.0	144.0	143.0	143.0	145.0
57.5°	116.6	116.6	116.6	116.6	116.6	115.6	116.6	116.6
60°	92.1	93.0	92.1	92.1	92.1	92.1	91.1	93.0
62.5°	71.5	71.5	70.5	71.5	71.5	71.5	72.5	72.5
65°	55.8	56.8	55.8	56.8	56.8	56.8	56.8	57.8
67.5°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
70°	33.3	33.3	33.3	34.3	33.3	33.3	33.3	34.3
72.5°	24.5	24.5	24.5	24.5	24.5	24.5	25.5	25.5
75°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
77.5°	11.8	11.8	11.8	12.7	11.8	12.7	11.8	11.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
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)