

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: P252460

Luminaire Tested: **LD6B15D010 EU6B10209030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252460
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: LD6B15D010 EU6B10209030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1063.0 lumens
Efficiency: N/A
Efficacy: 73.9 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

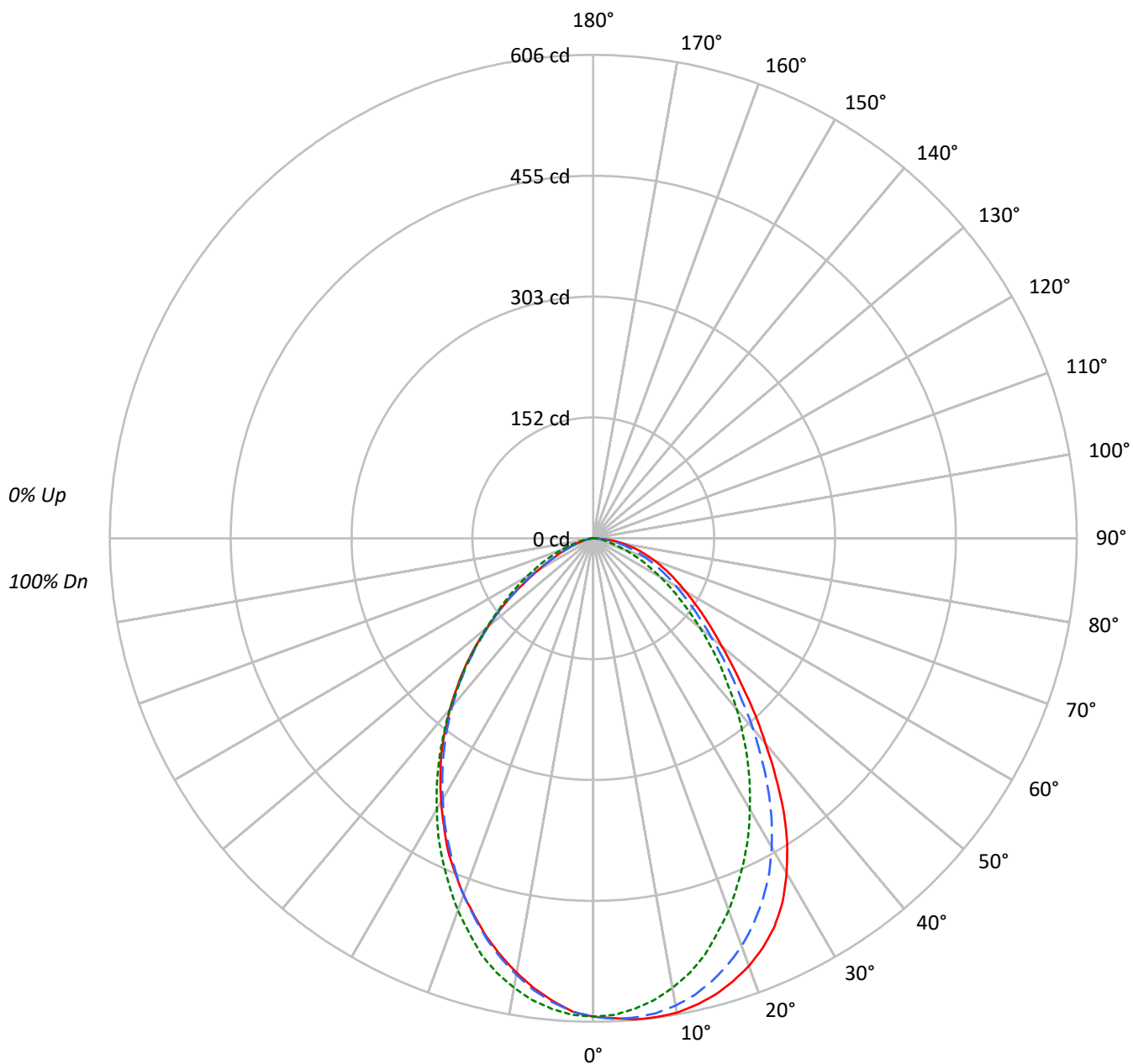
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	39125	39125	39125
5°	39654	38783	38128
10°	40007	37907	36635
15°	39998	36513	34933
20°	39608	34464	33020
25°	38670	32134	31054
30°	36514	29553	28740
35°	33100	26800	26466
40°	28590	23838	23761
45°	24515	20750	20898
50°	21304	17752	17498
55°	19132	14969	14025
60°	17393	12604	10321
65°	16333	10420	7580
70°	15565	8107	5570
75°	14897	5873	3781
80°	14089	4058	2517
85°	12501	2470	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	5.3
10°-20°	153.6	14.5
20°-30°	213.3	20.1
30°-40°	220.9	20.8
40°-50°	181.5	17.1
50°-60°	124.8	11.7
60°-70°	71.7	6.7
70°-80°	33.0	3.1
80°-90°	8.0	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°	423.0	39.8
0°-40°	643.9	60.6
0°-60°	950.3	89.4
0°-90°	1063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	600	600	600	600	600	
5°	606	603	592	584	582	58
15°	592	575	541	519	517	167
25°	537	501	446	427	431	246
35°	416	382	336	326	332	258
45°	266	246	225	222	226	207
55°	168	152	132	124	123	151
65°	106	92	68	48	49	105
75°	59	47	23	15	15	62
85°	17	12	3	2	2	19
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°	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7
2.5°	602.2	607.2	603.9	603.0	604.7	604.7	604.7	602.2	603.9	601.4	603.0
5°	605.5	609.7	606.4	604.7	606.4	607.2	604.7	603.0	605.5	602.2	603.0
7.5°	605.5	609.7	606.4	605.5	606.4	606.4	605.5	602.2	603.9	600.5	600.5
10°	603.9	607.2	603.9	602.2	603.0	602.2	602.2	598.0	598.9	594.7	594.7
12.5°	598.9	603.0	598.9	597.2	597.2	597.2	594.7	591.4	592.2	587.2	586.4
15°	592.2	595.5	591.4	589.7	589.7	588.9	587.2	582.2	582.2	577.2	574.7
17.5°	582.2	585.5	582.2	579.7	578.9	577.2	575.5	570.5	568.9	563.0	560.5
20°	570.5	573.0	569.7	567.2	565.5	563.9	560.5	555.5	553.9	548.0	543.9
22.5°	555.5	558.9	553.9	551.4	549.7	547.2	543.9	538.9	536.4	528.9	523.9
25°	537.2	538.9	534.7	532.2	528.9	527.2	524.7	518.1	515.6	507.2	501.4
27.5°	513.9	515.6	510.6	508.9	504.7	503.1	499.7	493.9	490.6	482.3	476.4
30°	484.7	486.4	483.1	480.6	477.3	473.9	471.4	465.6	460.6	452.3	447.3
32.5°	452.3	454.8	451.4	448.1	442.3	443.1	438.9	433.1	428.9	421.4	415.6
35°	415.6	417.3	413.1	412.3	409.0	405.6	401.5	397.3	394.8	386.5	381.5
37.5°	374.8	379.0	374.8	371.5	369.8	367.3	364.8	359.0	357.3	352.3	345.7
40°	335.7	338.2	335.7	332.3	329.8	329.8	326.5	323.2	319.0	314.0	311.5
42.5°	300.7	299.0	298.2	296.5	293.2	292.3	291.5	287.4	284.9	279.9	275.7
45°	265.7	266.5	264.9	264.0	261.5	259.9	258.2	254.9	254.0	249.0	245.7
47.5°	236.5	235.7	234.0	234.0	232.4	230.7	229.0	226.5	225.7	221.6	218.2
50°	209.9	210.7	209.9	209.1	206.6	205.7	204.1	202.4	200.7	196.6	193.2
52.5°	188.2	187.4	186.6	186.6	184.1	183.2	181.6	179.9	178.2	174.1	171.6
55°	168.2	168.2	167.4	166.6	164.1	163.2	162.4	160.8	158.3	154.9	152.4
57.5°	149.9	149.9	149.1	148.3	146.6	146.6	144.9	143.3	141.6	138.3	134.9
60°	133.3	134.1	133.3	132.4	130.8	130.8	129.9	127.4	126.6	122.4	119.9
62.5°	119.1	119.1	119.1	118.3	117.4	115.8	115.8	113.3	111.6	109.1	105.8
65°	105.8	105.8	105.8	104.9	103.3	102.4	101.6	99.9	98.3	95.8	92.5
67.5°	93.3	93.3	93.3	92.5	90.8	90.0	89.1	88.3	85.8	83.3	80.0
70°	81.6	81.6	80.8	80.0	79.1	78.3	77.5	75.8	74.1	70.8	68.3
72.5°	70.0	70.0	70.0	68.3	67.5	67.5	65.8	65.0	63.3	60.0	57.5
75°	59.1	58.3	58.3	57.5	56.6	55.8	55.0	54.1	51.6	50.0	46.6
77.5°	48.3	48.3	47.5	46.6	46.6	45.8	45.0	43.3	42.5	40.0	37.5
80°	37.5	37.5	37.5	37.5	36.6	35.8	35.8	34.1	33.3	30.8	29.2
82.5°	28.3	27.5	27.5	27.5	26.7	25.8	25.8	25.0	24.2	22.5	20.8
85°	16.7	15.8	15.8	15.8	15.0	15.0	14.2	14.2	13.3	11.7	11.7
87.5°	5.0	5.0	5.8	5.8	5.0	5.0	5.0	5.0	5.0	4.2	4.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7
2.5°	601.4	603.9	600.5	599.7	603.0	601.4	600.5	598.9	599.7	598.0	595.5
5°	600.5	603.9	599.7	597.2	601.4	598.9	597.2	595.5	595.5	592.2	590.5
7.5°	598.0	599.7	595.5	593.0	595.5	593.0	591.4	588.9	588.0	583.9	581.4
10°	591.4	593.0	588.0	584.7	587.2	583.9	581.4	578.9	577.2	572.2	568.9
12.5°	582.2	583.0	577.2	573.0	574.7	572.2	568.0	564.7	563.0	558.0	553.9
15°	569.7	570.5	563.9	558.0	559.7	556.4	551.4	548.0	545.6	540.6	534.7
17.5°	554.7	553.9	546.4	540.6	541.4	537.2	532.2	527.2	523.9	518.1	513.9
20°	538.1	535.6	527.2	520.6	521.4	516.4	510.6	505.6	501.4	496.4	490.6
22.5°	517.2	513.9	506.4	498.1	498.9	494.7	486.4	482.3	478.1	471.4	466.4
25°	494.7	489.7	482.3	473.9	473.9	468.9	462.3	457.3	453.1	446.4	440.6
27.5°	468.1	465.6	455.6	448.9	448.1	443.1	437.3	431.4	426.4	420.6	414.8
30°	438.9	434.8	427.3	419.8	418.1	414.0	408.1	401.5	398.1	392.3	387.3
32.5°	408.1	404.0	395.6	388.1	387.3	384.0	379.0	372.3	369.0	364.8	361.5
35°	373.1	371.5	363.1	357.3	357.3	354.0	349.0	343.2	340.7	336.5	332.3
37.5°	339.8	337.3	329.8	324.8	324.8	320.7	315.7	313.2	310.7	307.3	304.8
40°	304.8	303.2	297.3	292.3	293.2	289.8	286.5	283.2	281.5	279.9	277.4
42.5°	272.4	270.7	266.5	262.4	262.4	259.9	256.5	254.0	252.4	249.9	249.0
45°	243.2	240.7	237.4	233.2	233.2	230.7	229.0	227.4	226.5	224.9	222.4
47.5°	214.9	213.2	209.9	205.7	205.7	205.7	202.4	199.9	199.9	198.2	197.4
50°	190.7	188.2	185.7	182.4	182.4	180.7	178.2	175.7	175.7	174.9	173.2
52.5°	168.2	166.6	163.2	159.9	159.9	158.3	155.8	154.9	154.1	151.6	150.8
55°	149.1	147.4	144.9	140.8	139.9	139.1	136.6	134.9	134.1	131.6	131.6
57.5°	131.6	129.9	125.8	123.3	122.4	120.8	118.3	116.6	115.8	114.1	112.4
60°	116.6	114.1	110.8	107.4	106.6	104.9	102.4	100.8	99.9	96.6	95.0
62.5°	102.4	99.9	96.6	93.3	92.5	90.8	87.5	85.8	84.1	80.8	79.1
65°	89.1	86.6	83.3	80.0	78.3	77.5	74.1	71.6	70.0	67.5	64.1
67.5°	76.6	74.1	70.8	66.6	66.6	64.1	61.6	59.1	56.6	54.1	51.6
70°	65.0	62.5	59.1	55.8	55.0	53.3	50.8	47.5	45.8	42.5	40.0
72.5°	54.1	51.6	48.3	45.0	44.1	42.5	40.0	36.6	34.1	31.7	29.2
75°	44.1	41.6	38.3	35.8	35.0	33.3	30.8	27.5	25.0	23.3	20.8
77.5°	35.0	32.5	30.0	27.5	26.7	25.0	22.5	20.8	18.3	16.7	14.2
80°	26.7	25.0	22.5	20.8	20.0	18.3	16.7	14.2	12.5	10.8	10.0
82.5°	19.2	17.5	15.8	13.3	13.3	11.7	10.8	9.2	7.5	6.7	5.8
85°	10.8	9.2	8.3	7.5	6.7	6.7	5.8	5.0	4.2	3.3	3.3
87.5°	3.3	3.3	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7
2.5°	595.5	596.4	594.7	596.4	594.7	595.5	593.9	595.5	593.9	595.5	592.2
5°	589.7	589.7	587.2	588.9	587.2	588.0	584.7	585.5	583.9	585.5	582.2
7.5°	579.7	580.5	576.4	578.0	575.5	575.5	573.0	573.9	571.4	572.2	569.7
10°	568.0	567.2	563.0	564.7	561.4	561.4	558.9	558.9	555.5	556.4	553.0
12.5°	551.4	550.5	545.6	547.2	543.9	543.9	541.4	541.4	538.1	539.7	536.4
15°	532.2	531.4	526.4	527.2	523.9	523.9	520.6	521.4	518.9	520.6	517.2
17.5°	510.6	509.7	504.7	505.6	501.4	502.2	499.7	498.9	497.2	498.1	495.6
20°	488.1	486.4	481.4	482.3	480.6	478.1	476.4	477.3	475.6	477.3	474.8
22.5°	464.8	461.4	457.3	457.3	455.6	455.6	453.1	454.8	451.4	453.9	452.3
25°	438.1	435.6	432.3	433.9	430.6	430.6	428.1	428.9	427.3	428.9	427.3
27.5°	412.3	410.6	405.6	407.3	404.8	405.6	403.1	404.0	403.1	404.8	403.1
30°	384.8	384.0	380.6	380.6	379.8	379.0	378.1	378.1	377.3	379.8	378.1
32.5°	359.0	356.5	353.2	355.6	351.5	354.0	352.3	354.0	352.3	354.0	353.2
35°	332.3	331.5	327.3	328.2	327.3	327.3	326.5	326.5	326.5	329.0	329.0
37.5°	304.0	303.2	300.7	301.5	299.8	299.0	299.0	300.7	300.7	302.3	302.3
40°	276.5	277.4	274.9	274.9	274.0	274.0	274.0	275.7	274.9	276.5	275.7
42.5°	249.0	249.0	246.5	247.4	246.5	247.4	247.4	249.0	249.0	249.9	249.0
45°	223.2	223.2	222.4	223.2	221.6	222.4	221.6	223.2	222.4	223.2	223.2
47.5°	197.4	197.4	197.4	196.6	196.6	196.6	196.6	196.6	195.7	197.4	196.6
50°	173.2	174.1	173.2	173.2	172.4	173.2	172.4	172.4	170.7	171.6	171.6
52.5°	151.6	151.6	149.9	149.9	149.9	149.1	149.1	149.1	148.3	148.3	146.6
55°	130.8	130.8	129.1	129.1	128.3	127.4	126.6	126.6	124.1	124.1	121.6
57.5°	111.6	110.8	108.3	108.3	106.6	105.8	104.9	104.1	102.4	100.8	99.9
60°	94.1	92.5	90.8	90.0	88.3	86.6	85.0	83.3	81.6	80.8	80.0
62.5°	77.5	75.0	73.3	72.5	70.8	68.3	66.6	65.0	63.3	62.5	60.8
65°	62.5	60.0	57.5	56.6	55.0	53.3	50.8	49.1	47.5	46.6	46.6
67.5°	49.1	46.6	43.3	43.3	41.6	40.0	38.3	36.6	35.8	36.6	36.6
70°	36.6	35.0	32.5	31.7	30.0	28.3	27.5	27.5	27.5	28.3	27.5
72.5°	27.5	25.0	23.3	22.5	21.7	20.8	20.8	20.8	20.0	20.8	20.8
75°	19.2	17.5	15.8	15.8	15.0	15.0	15.0	15.0	15.0	15.0	15.0
77.5°	13.3	11.7	10.8	10.8	10.8	10.0	10.0	10.0	10.0	10.0	10.0
80°	8.3	8.3	7.5	7.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7
82.5°	5.0	5.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7
2.5°	592.2	594.7	591.4	593.9	593.0	592.2	590.5	593.9
5°	582.2	583.0	579.7	583.0	582.2	580.5	578.9	582.2
7.5°	568.0	570.5	566.4	569.7	568.9	567.2	565.5	568.9
10°	552.2	554.7	551.4	553.9	553.9	552.2	549.7	553.0
12.5°	534.7	536.4	533.1	536.4	535.6	533.9	533.1	535.6
15°	515.6	518.1	514.7	517.2	516.4	515.6	514.7	517.2
17.5°	494.7	497.2	494.7	497.2	497.2	494.7	493.9	495.6
20°	473.9	475.6	473.1	475.6	474.8	474.8	473.1	475.6
22.5°	450.6	453.1	451.4	453.1	452.3	452.3	451.4	453.1
25°	427.3	429.8	427.3	429.8	428.9	428.9	427.3	431.4
27.5°	404.0	405.6	403.1	406.5	405.6	404.0	404.8	405.6
30°	379.0	380.6	379.0	381.5	381.5	381.5	379.8	381.5
32.5°	354.0	356.5	354.0	356.5	355.6	355.6	354.8	356.5
35°	329.0	329.8	328.2	330.7	330.7	331.5	329.8	332.3
37.5°	303.2	304.0	303.2	304.0	305.7	303.2	304.8	305.7
40°	276.5	278.2	277.4	278.2	278.2	279.0	278.2	279.0
42.5°	249.9	251.5	249.9	252.4	251.5	251.5	252.4	252.4
45°	222.4	224.9	223.2	224.9	225.7	224.9	224.9	226.5
47.5°	196.6	198.2	197.4	198.2	198.2	198.2	198.2	199.9
50°	170.7	171.6	171.6	172.4	172.4	173.2	171.6	172.4
52.5°	144.9	146.6	146.6	146.6	145.8	146.6	146.6	146.6
55°	121.6	122.4	120.8	122.4	122.4	121.6	121.6	123.3
57.5°	99.1	99.1	99.1	99.1	99.1	98.3	99.1	99.1
60°	78.3	79.1	78.3	78.3	78.3	78.3	77.5	79.1
62.5°	60.8	60.8	60.0	60.8	60.8	60.8	61.6	61.6
65°	47.5	48.3	47.5	48.3	48.3	48.3	48.3	49.1
67.5°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
70°	28.3	28.3	28.3	29.2	28.3	28.3	28.3	29.2
72.5°	20.8	20.8	20.8	20.8	20.8	20.8	21.7	21.7
75°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
77.5°	10.0	10.0	10.0	10.8	10.0	10.8	10.0	10.0
80°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
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)