

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: P274455

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBDW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBDW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, DOUBLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.4 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

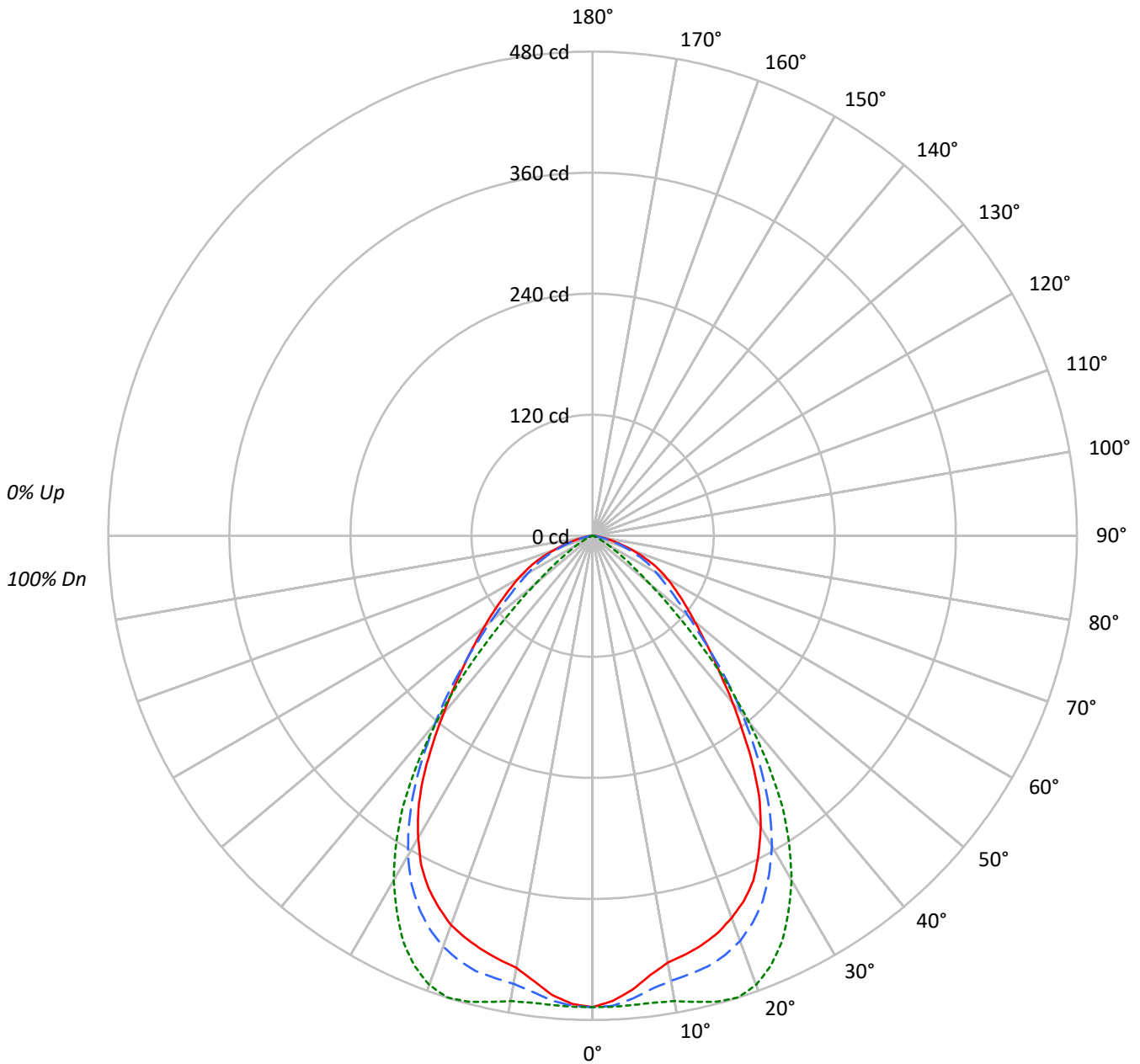
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274455

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30487	30487	30487
5°	29582	30571	29935
10°	28453	31030	28811
15°	28354	32292	28685
20°	27979	32895	28507
25°	27146	31969	27729
30°	25109	29711	26050
35°	22030	26115	23320
40°	18362	20474	19554
45°	15454	13507	16497
50°	13377	7399	14199
55°	12102	3936	12409
60°	11143	2049	11143
65°	10096	1081	9849
70°	8145	610	7516
75°	5596	403	5167
80°	3644	188	3231
85°	2395	374	2021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	5.4
10°-20°	126.0	15.6
20°-30°	186.2	23.0
30°-40°	188.1	23.2
40°-50°	129.6	16.0
50°-60°	74.4	9.2
60°-70°	43.3	5.4
70°-80°	15.8	2.0
80°-90°	2.4	0.3
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°	355.8	44.0
0°-40°	543.8	67.2
0°-60°	747.9	92.4
0°-90°	809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	452	460	467	462	457	42
15°	420	442	478	447	425	118
25°	377	399	444	407	385	172
35°	277	296	328	309	293	172
45°	168	170	146	180	179	130
55°	106	94	35	97	109	96
65°	65	55	7	55	64	64
75°	22	18	2	17	20	25
85°	3	2	0	2	3	4
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	461.4	461.9	462.5	461.9	462.5	464.6	463.0	464.1	464.1	464.6	466.3
5°	451.7	451.7	452.8	452.2	453.8	456.0	454.4	456.0	456.5	457.6	460.3
7.5°	439.2	439.2	439.8	439.8	441.9	444.1	443.0	445.2	447.3	449.5	452.8
10°	429.5	430.6	430.6	431.1	433.3	436.0	435.5	438.2	440.3	443.6	447.9
12.5°	425.2	425.7	425.7	426.8	429.0	431.7	431.1	433.8	437.1	440.9	445.2
15°	419.8	420.9	420.3	421.4	423.6	426.3	425.7	428.4	432.2	436.0	441.9
17.5°	412.8	413.3	413.9	413.9	416.0	418.2	418.2	420.9	425.2	429.5	436.0
20°	403.0	404.1	404.1	404.7	406.3	409.5	409.0	411.7	416.0	420.3	427.4
22.5°	391.7	392.2	392.2	392.8	395.5	397.1	397.6	399.8	403.6	408.4	414.9
25°	377.1	377.7	377.1	378.7	379.8	383.1	382.0	384.7	389.0	392.8	399.3
27.5°	356.0	357.1	357.1	357.7	360.4	363.1	363.1	365.8	369.5	372.2	378.7
30°	333.3	335.0	333.3	336.1	337.1	339.3	340.9	342.5	345.8	349.6	355.5
32.5°	307.4	306.9	307.4	308.5	311.7	313.4	314.4	316.1	319.3	322.5	327.4
35°	276.6	277.7	278.2	280.4	280.4	283.1	283.6	284.7	289.6	291.7	295.5
37.5°	244.2	245.3	245.8	246.9	249.1	250.1	251.8	253.4	256.6	260.4	262.6
40°	215.6	215.6	216.1	217.2	218.8	219.4	221.0	223.1	225.3	228.5	230.7
42.5°	188.6	189.1	188.6	189.6	191.3	193.4	192.9	195.6	196.1	198.3	199.9
45°	167.5	167.5	166.4	167.5	167.5	169.6	169.1	170.2	169.6	170.7	169.6
47.5°	147.5	148.0	147.5	148.0	148.0	148.0	148.6	147.5	148.0	146.4	143.2
50°	131.8	132.4	131.3	131.8	131.3	130.7	131.3	129.7	129.1	127.0	123.7
52.5°	118.3	117.8	117.2	117.2	117.2	116.7	116.2	114.5	112.9	110.8	107.0
55°	106.4	105.9	105.4	105.4	104.3	103.7	103.7	102.1	100.5	97.8	93.5
57.5°	95.6	95.1	94.5	94.5	94.0	92.9	92.9	91.3	89.1	85.9	82.1
60°	85.4	85.4	85.4	84.8	84.8	83.7	83.7	82.1	80.0	76.7	72.4
62.5°	76.2	75.6	75.6	75.6	75.6	75.1	74.6	73.5	71.3	68.1	64.3
65°	65.4	65.4	65.4	65.4	64.8	64.8	64.8	63.2	62.1	58.9	55.1
67.5°	53.5	53.5	53.5	53.5	52.9	53.5	53.5	52.4	51.3	48.1	44.8
70°	42.7	42.1	41.6	42.1	41.6	41.6	42.1	41.1	40.5	37.8	34.6
72.5°	31.3	31.9	31.3	31.3	31.3	30.8	31.3	30.8	29.7	27.6	25.4
75°	22.2	22.7	22.7	22.2	22.2	22.2	21.6	21.6	20.5	18.9	17.8
77.5°	15.1	15.1	15.1	15.1	14.6	14.6	14.6	14.0	13.5	12.4	11.3
80°	9.7	9.7	9.7	9.7	9.2	9.2	9.2	8.6	8.6	7.6	6.5
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.4	5.4	4.9	4.3	3.8
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.7	2.7	2.2	1.6
87.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	465.2	465.7	465.7	465.7	467.3	467.9	466.3	464.6	467.9	467.3	468.4
5°	459.8	461.4	462.5	463.0	464.6	465.7	464.1	463.6	466.3	466.8	467.3
7.5°	453.3	456.0	458.7	459.8	461.9	463.0	462.5	462.5	465.7	466.8	466.8
10°	449.0	452.8	456.0	458.7	461.4	463.0	463.0	463.6	467.3	468.4	469.5
12.5°	447.9	452.8	457.1	460.9	463.0	465.7	466.3	467.9	471.7	473.3	473.3
15°	445.2	451.7	457.1	461.9	465.2	468.4	469.5	472.7	477.1	478.1	479.2
17.5°	440.3	446.8	453.3	459.2	463.6	466.3	469.5	472.7	478.1	479.8	480.3
20°	431.7	439.2	445.7	451.7	456.0	459.8	463.0	466.8	471.7	473.8	474.4
22.5°	418.7	426.3	432.8	439.2	443.6	446.8	450.0	454.4	459.2	461.4	461.4
25°	403.0	410.1	417.1	422.0	426.3	430.1	431.7	436.5	441.4	444.1	444.1
27.5°	383.1	389.5	396.0	401.4	404.1	407.4	410.1	414.4	418.2	420.3	422.5
30°	357.7	364.1	370.1	375.5	378.7	382.0	384.7	387.9	391.7	394.4	394.9
32.5°	330.1	335.5	341.5	346.9	350.1	351.2	353.9	357.1	360.4	362.5	363.1
35°	299.9	303.6	307.4	312.3	315.5	315.5	318.2	320.4	323.1	327.9	326.9
37.5°	264.2	269.6	272.3	273.9	276.1	278.2	278.8	281.5	284.7	285.8	287.4
40°	230.7	232.3	233.9	233.9	236.1	236.1	236.1	236.6	239.9	240.4	242.6
42.5°	197.2	197.2	195.6	194.0	194.5	194.0	191.3	191.3	192.9	195.0	195.0
45°	165.9	162.1	157.2	153.4	150.7	149.7	146.4	146.4	145.9	146.4	148.6
47.5°	139.4	132.9	124.8	117.2	114.5	112.4	107.5	105.4	104.3	104.8	105.9
50°	117.2	110.2	101.0	91.8	87.0	84.3	78.3	74.6	74.0	72.9	75.1
52.5°	101.0	92.4	82.7	71.9	67.0	62.7	56.2	52.9	50.8	50.8	51.3
55°	87.0	77.8	67.0	56.2	51.3	48.1	41.6	37.3	35.1	34.6	36.2
57.5°	75.1	66.5	55.6	44.8	40.0	36.2	29.7	25.9	24.3	23.2	23.8
60°	65.9	57.3	46.5	36.2	31.9	27.6	22.2	17.8	15.7	15.7	16.2
62.5°	57.3	49.2	39.4	29.7	25.9	22.2	16.2	12.4	10.8	10.3	10.8
65°	48.6	41.1	33.0	24.9	21.1	17.8	13.0	9.7	7.6	7.0	7.6
67.5°	39.4	33.5	26.5	20.0	16.7	14.0	9.7	7.0	5.4	4.9	5.4
70°	30.8	25.4	20.0	14.6	12.4	10.3	7.0	5.4	3.8	3.2	3.8
72.5°	22.2	18.4	14.0	10.3	8.6	7.0	4.9	3.8	2.7	2.2	2.7
75°	15.1	12.4	9.2	6.5	5.4	4.9	3.2	2.2	1.6	1.6	1.6
77.5°	9.7	7.6	5.9	4.3	3.2	2.7	1.6	1.1	1.1	1.1	1.1
80°	5.4	4.3	3.2	2.2	1.6	1.6	1.1	1.1	0.5	0.5	0.5
82.5°	3.2	2.2	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
85°	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	466.3	466.8	465.2	467.3	465.7	467.9	467.9	465.7	466.3	465.2	467.3
5°	465.2	465.2	464.1	465.7	463.6	465.7	465.2	461.4	462.5	460.3	462.5
7.5°	465.2	464.1	462.5	464.1	461.4	463.0	460.9	457.1	456.0	453.3	453.3
10°	466.8	465.2	463.0	463.6	460.9	461.4	458.2	452.8	451.1	447.9	446.8
12.5°	470.6	469.0	465.7	466.8	463.0	463.0	458.7	452.2	449.0	444.6	443.6
15°	476.0	473.3	469.5	470.0	466.3	464.1	458.7	451.1	446.8	440.9	439.2
17.5°	477.1	474.4	469.5	469.5	464.6	461.9	455.5	446.8	441.4	435.5	432.2
20°	471.1	468.4	463.0	462.5	458.2	454.4	447.3	438.7	433.3	426.8	424.1
22.5°	458.7	455.5	450.6	450.0	445.7	443.6	436.0	427.4	422.0	415.5	413.3
25°	440.3	438.7	433.8	433.3	429.5	426.8	420.3	412.2	407.4	400.9	398.7
27.5°	418.7	417.1	412.2	412.2	407.9	406.3	400.3	392.8	389.0	383.1	380.4
30°	392.8	390.6	387.9	387.4	383.6	382.0	376.6	369.5	365.8	360.9	359.8
32.5°	362.0	360.4	358.7	358.2	354.4	352.8	349.0	342.0	338.8	334.4	332.8
35°	326.3	325.2	323.6	323.1	321.5	319.8	316.1	310.7	309.0	305.8	304.2
37.5°	285.3	286.3	285.3	285.3	283.6	284.2	280.9	277.7	276.1	273.9	272.8
40°	241.0	243.1	244.7	244.7	244.2	246.4	245.8	243.1	242.6	241.5	241.0
42.5°	196.1	197.2	200.4	202.6	202.1	207.5	208.0	210.2	211.8	210.7	211.2
45°	149.1	152.4	156.7	158.8	161.5	168.6	172.3	176.7	180.5	182.6	182.1
47.5°	107.5	111.3	116.2	119.4	124.3	132.9	142.6	148.0	153.4	156.1	158.8
50°	77.8	81.6	87.5	92.4	95.6	107.5	117.8	124.8	130.7	134.5	137.2
52.5°	54.6	58.9	65.4	69.7	74.6	85.9	97.8	105.9	112.4	117.2	119.9
55°	37.8	42.7	48.6	52.9	58.3	70.2	81.6	90.2	97.2	101.6	104.8
57.5°	26.5	30.8	36.7	40.5	45.9	57.3	68.6	77.3	84.3	88.6	92.4
60°	17.8	22.2	28.1	31.9	36.2	47.5	57.8	67.0	73.5	77.8	81.6
62.5°	12.4	16.2	22.2	25.9	29.7	39.4	49.2	57.3	63.8	68.6	71.9
65°	9.7	13.0	17.8	21.1	24.9	33.0	41.1	48.1	54.6	59.4	61.6
67.5°	7.0	10.3	14.0	16.7	19.4	26.5	33.5	38.9	44.8	48.6	51.3
70°	4.9	7.0	10.3	12.4	14.6	20.0	25.4	30.3	34.6	37.3	39.4
72.5°	3.8	4.9	7.0	8.6	10.3	14.0	18.4	22.2	25.4	27.6	29.7
75°	2.2	3.2	4.9	5.9	7.0	9.7	12.4	15.1	17.3	18.9	20.0
77.5°	1.1	1.6	2.7	3.2	4.3	5.9	8.1	9.7	11.3	12.4	13.5
80°	1.1	1.1	1.6	1.6	2.2	3.2	4.3	5.4	6.5	7.6	8.1
82.5°	0.5	0.5	1.1	1.1	1.1	1.6	2.2	3.2	3.8	4.3	4.9
85°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	465.7	466.8	466.3	467.3	465.7	465.2	466.3	464.6
5°	459.8	460.3	459.8	459.8	458.7	457.6	458.7	457.1
7.5°	450.6	450.6	449.0	449.0	446.8	445.7	445.7	445.2
10°	443.0	441.4	439.8	440.3	437.1	436.0	435.5	434.9
12.5°	439.2	438.2	435.5	435.5	432.2	431.1	430.6	430.1
15°	434.9	432.8	430.6	430.1	427.4	426.3	425.7	424.7
17.5°	427.4	425.7	423.0	423.0	420.3	419.8	418.7	418.2
20°	419.3	417.1	414.9	414.9	411.7	411.7	410.1	410.6
22.5°	407.9	406.3	404.1	404.1	401.4	400.9	399.3	398.7
25°	394.4	392.2	390.6	390.1	387.9	386.8	386.3	385.2
27.5°	376.6	375.0	373.3	372.2	369.5	369.0	367.4	367.9
30°	354.4	353.3	352.8	351.7	348.5	347.4	347.4	345.8
32.5°	330.1	328.5	327.4	325.8	323.1	322.5	320.9	321.5
35°	300.4	298.2	296.6	297.2	293.9	293.4	292.3	292.8
37.5°	269.6	267.4	265.3	264.7	262.0	262.0	260.4	260.4
40°	237.7	235.6	234.5	234.5	231.2	231.8	230.2	229.6
42.5°	209.1	206.9	206.4	205.8	204.2	203.7	202.1	202.6
45°	182.1	181.5	181.5	180.5	178.8	178.3	178.8	178.8
47.5°	158.3	158.8	158.3	158.3	157.2	158.3	157.2	157.8
50°	138.3	139.4	139.4	139.4	138.9	139.4	139.4	139.9
52.5°	121.6	123.2	122.6	123.2	122.6	123.7	123.2	123.7
55°	107.0	108.1	108.6	109.1	109.1	109.1	109.1	109.1
57.5°	93.5	95.1	95.6	96.2	96.2	97.2	96.2	96.2
60°	82.7	84.3	84.8	85.4	85.4	85.9	84.8	85.4
62.5°	72.9	74.6	74.6	75.1	75.1	75.1	74.0	74.6
65°	63.2	63.8	64.3	64.3	63.8	63.8	63.2	63.8
67.5°	52.4	52.9	52.4	52.4	51.9	51.9	50.8	51.3
70°	40.5	40.5	41.1	40.5	40.0	40.5	40.0	39.4
72.5°	30.3	30.3	30.3	29.7	29.7	29.2	29.7	29.7
75°	20.5	20.5	21.1	21.1	21.1	21.1	20.5	20.5
77.5°	13.5	13.5	13.5	13.5	14.0	13.5	13.5	13.5
80°	8.6	8.6	9.2	9.2	8.6	8.6	8.6	8.6
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	3.2	3.2	3.2	3.2	2.7	2.7	2.7	2.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1
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)