

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: P274452

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBDW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274452
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: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBDW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, DOUBLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 912.2 lumens
Efficiency: N/A
Efficacy: 65.2 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

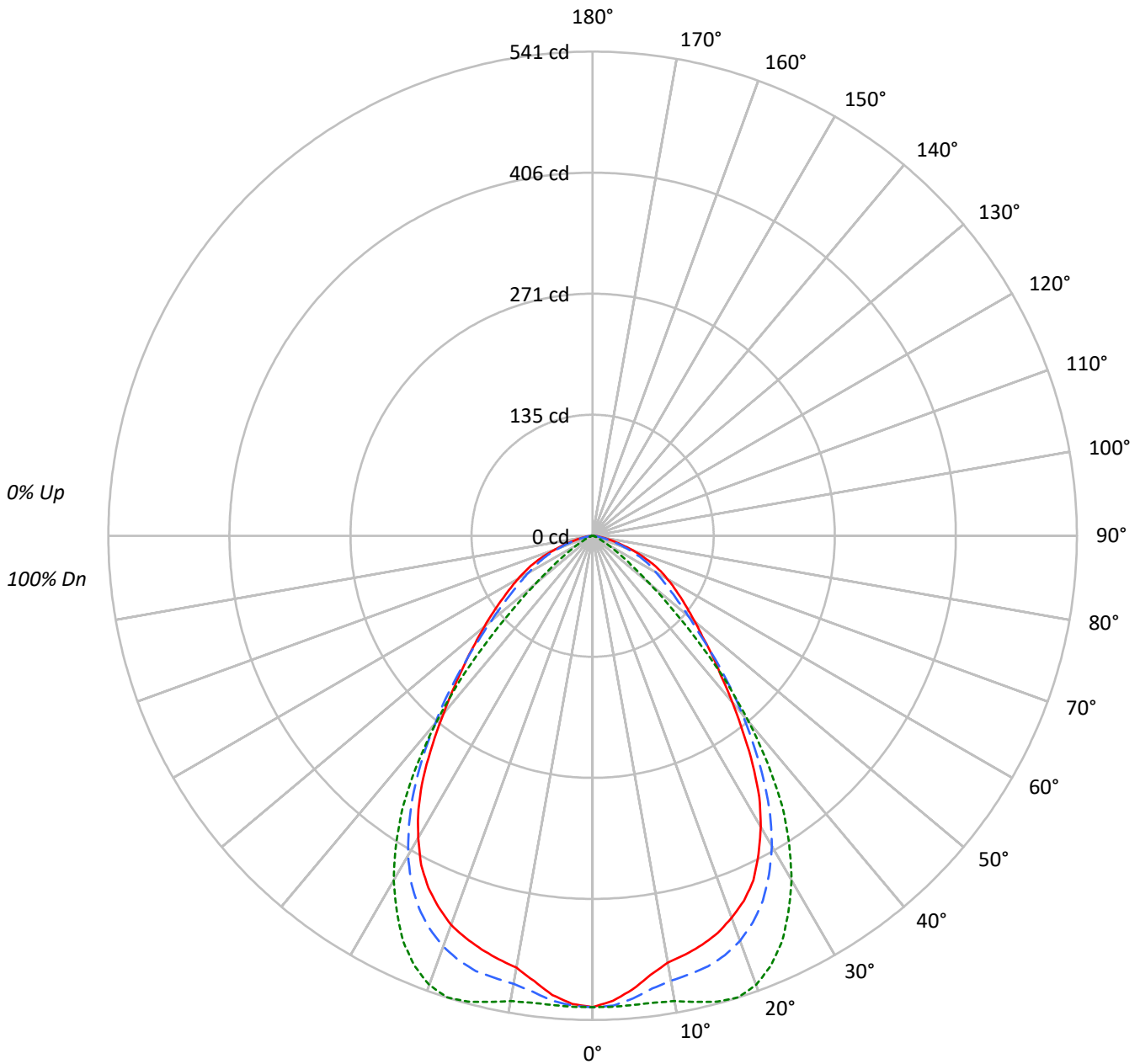
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274452

CATALOG NUMBER: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBDW0LI

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°	34362	34362	34362
5°	33334	34454	33734
10°	32070	34972	32468
15°	31954	36398	32326
20°	31534	37074	32124
25°	30594	36029	31249
30°	28303	33486	29357
35°	24825	29436	26283
40°	20687	23071	22041
45°	17419	15224	18591
50°	15082	8343	16006
55°	13638	4436	13990
60°	12552	2310	12552
65°	11377	1220	11084
70°	9175	706	8469
75°	6302	454	5823
80°	4133	225	3644
85°	2770	449	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	5.4
10°-20°	142.0	15.6
20°-30°	209.8	23.0
30°-40°	211.9	23.2
40°-50°	146.1	16.0
50°-60°	83.9	9.2
60°-70°	48.8	5.4
70°-80°	17.8	2.0
80°-90°	2.7	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°	400.9	44.0
0°-40°	612.9	67.2
0°-60°	842.9	92.4
0°-90°	912.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	527	527	527	527	527	
5°	509	519	526	521	515	48
15°	473	498	539	504	479	133
25°	425	450	500	459	434	194
35°	312	333	370	348	330	193
45°	189	191	165	203	202	147
55°	120	105	39	110	123	108
65°	74	62	8	62	72	72
75°	25	20	2	20	23	28
85°	4	2	1	2	3	5
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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	520.0	520.6	521.2	520.6	521.2	523.6	521.8	523.0	523.0	523.6	525.5
5°	509.0	509.0	510.2	509.6	511.5	513.9	512.1	513.9	514.5	515.7	518.8
7.5°	495.0	495.0	495.6	495.6	498.1	500.5	499.3	501.7	504.1	506.6	510.2
10°	484.1	485.3	485.3	485.9	488.3	491.4	490.8	493.8	496.2	499.9	504.8
12.5°	479.2	479.8	479.8	481.0	483.4	486.5	485.9	488.9	492.6	496.8	501.7
15°	473.1	474.3	473.7	474.9	477.4	480.4	479.8	482.8	487.1	491.4	498.1
17.5°	465.2	465.8	466.4	466.4	468.8	471.3	471.3	474.3	479.2	484.1	491.4
20°	454.2	455.4	455.4	456.0	457.9	461.5	460.9	464.0	468.8	473.7	481.6
22.5°	441.4	442.0	442.0	442.6	445.7	447.5	448.1	450.6	454.8	460.3	467.6
25°	425.0	425.6	425.0	426.8	428.0	431.7	430.5	433.5	438.4	442.6	450.0
27.5°	401.2	402.5	402.5	403.1	406.1	409.2	409.2	412.2	416.5	419.5	426.8
30°	375.7	377.5	375.7	378.7	379.9	382.4	384.2	386.0	389.7	393.9	400.6
32.5°	346.4	345.8	346.4	347.7	351.3	353.1	354.4	356.2	359.8	363.5	369.0
35°	311.7	313.0	313.6	316.0	316.0	319.0	319.7	320.9	326.4	328.8	333.1
37.5°	275.2	276.4	277.0	278.3	280.7	281.9	283.7	285.6	289.2	293.5	295.9
40°	242.9	242.9	243.5	244.8	246.6	247.2	249.0	251.5	253.9	257.6	260.0
42.5°	212.5	213.1	212.5	213.7	215.5	218.0	217.4	220.4	221.0	223.5	225.3
45°	188.8	188.8	187.5	188.8	188.8	191.2	190.6	191.8	191.2	192.4	191.2
47.5°	166.2	166.8	166.2	166.8	166.8	166.8	167.4	166.2	166.8	165.0	161.4
50°	148.6	149.2	148.0	148.6	148.0	147.3	148.0	146.1	145.5	143.1	139.4
52.5°	133.3	132.7	132.1	132.1	132.1	131.5	130.9	129.1	127.3	124.8	120.6
55°	119.9	119.3	118.7	118.7	117.5	116.9	116.9	115.1	113.3	110.2	105.3
57.5°	107.8	107.2	106.6	106.6	105.9	104.7	104.7	102.9	100.5	96.8	92.5
60°	96.2	96.2	96.2	95.6	95.6	94.4	94.4	92.5	90.1	86.5	81.6
62.5°	85.9	85.2	85.2	85.2	85.2	84.6	84.0	82.8	80.4	76.7	72.5
65°	73.7	73.7	73.7	73.7	73.1	73.1	73.1	71.2	70.0	66.4	62.1
67.5°	60.3	60.3	60.3	60.3	59.7	60.3	60.3	59.1	57.8	54.2	50.5
70°	48.1	47.5	46.9	47.5	46.9	46.9	47.5	46.3	45.7	42.6	39.0
72.5°	35.3	35.9	35.3	35.3	35.3	34.7	35.3	34.7	33.5	31.1	28.6
75°	25.0	25.6	25.6	25.0	25.0	25.0	24.4	24.4	23.1	21.3	20.1
77.5°	17.0	17.0	17.0	17.0	16.4	16.4	16.4	15.8	15.2	14.0	12.8
80°	11.0	11.0	11.0	11.0	10.4	10.4	10.4	9.7	9.7	8.5	7.3
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.1	6.1	5.5	4.9	4.3
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.0	3.0	2.4	1.8
87.5°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	524.2	524.8	524.8	524.8	526.7	527.3	525.5	523.6	527.3	526.7	527.9
5°	518.1	520.0	521.2	521.8	523.6	524.8	523.0	522.4	525.5	526.1	526.7
7.5°	510.8	513.9	516.9	518.1	520.6	521.8	521.2	521.2	524.8	526.1	526.1
10°	506.0	510.2	513.9	516.9	520.0	521.8	521.8	522.4	526.7	527.9	529.1
12.5°	504.8	510.2	515.1	519.4	521.8	524.8	525.5	527.3	531.5	533.4	533.4
15°	501.7	509.0	515.1	520.6	524.2	527.9	529.1	532.8	537.6	538.9	540.1
17.5°	496.2	503.5	510.8	517.5	522.4	525.5	529.1	532.8	538.9	540.7	541.3
20°	486.5	495.0	502.3	509.0	513.9	518.1	521.8	526.1	531.5	534.0	534.6
22.5°	471.9	480.4	487.7	495.0	499.9	503.5	507.2	512.1	517.5	520.0	520.0
25°	454.2	462.1	470.0	475.5	480.4	484.7	486.5	492.0	497.4	500.5	500.5
27.5°	431.7	439.0	446.3	452.4	455.4	459.1	462.1	467.0	471.3	473.7	476.1
30°	403.1	410.4	417.1	423.2	426.8	430.5	433.5	437.2	441.4	444.5	445.1
32.5°	372.0	378.1	384.8	390.9	394.5	395.8	398.8	402.5	406.1	408.6	409.2
35°	337.9	342.2	346.4	351.9	355.6	355.6	358.6	361.1	364.1	369.6	368.4
37.5°	297.7	303.8	306.9	308.7	311.1	313.6	314.2	317.2	320.9	322.1	323.9
40°	260.0	261.8	263.6	263.6	266.1	266.1	266.1	266.7	270.3	270.9	273.4
42.5°	222.2	222.2	220.4	218.6	219.2	218.6	215.5	215.5	217.4	219.8	219.8
45°	186.9	182.7	177.2	172.9	169.9	168.7	165.0	165.0	164.4	165.0	167.4
47.5°	157.1	149.8	140.6	132.1	129.1	126.6	121.2	118.7	117.5	118.1	119.3
50°	132.1	124.2	113.9	103.5	98.0	95.0	88.3	84.0	83.4	82.2	84.6
52.5°	113.9	104.1	93.2	81.0	75.5	70.6	63.3	59.7	57.2	57.2	57.8
55°	98.0	87.7	75.5	63.3	57.8	54.2	46.9	42.0	39.6	39.0	40.8
57.5°	84.6	74.9	62.7	50.5	45.1	40.8	33.5	29.2	27.4	26.2	26.8
60°	74.3	64.5	52.4	40.8	35.9	31.1	25.0	20.1	17.7	17.7	18.3
62.5°	64.5	55.4	44.4	33.5	29.2	25.0	18.3	14.0	12.2	11.6	12.2
65°	54.8	46.3	37.1	28.0	23.7	20.1	14.6	11.0	8.5	7.9	8.5
67.5°	44.4	37.8	29.8	22.5	18.9	15.8	11.0	7.9	6.1	5.5	6.1
70°	34.7	28.6	22.5	16.4	14.0	11.6	7.9	6.1	4.3	3.7	4.3
72.5°	25.0	20.7	15.8	11.6	9.7	7.9	5.5	4.3	3.0	2.4	3.0
75°	17.0	14.0	10.4	7.3	6.1	5.5	3.7	2.4	1.8	1.8	1.8
77.5°	11.0	8.5	6.7	4.9	3.7	3.0	1.8	1.2	1.2	1.2	1.2
80°	6.1	4.9	3.7	2.4	1.8	1.8	1.2	1.2	0.6	0.6	0.6
82.5°	3.7	2.4	1.8	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
85°	1.8	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	525.5	526.1	524.2	526.7	524.8	527.3	527.3	524.8	525.5	524.2	526.7
5°	524.2	524.2	523.0	524.8	522.4	524.8	524.2	520.0	521.2	518.8	521.2
7.5°	524.2	523.0	521.2	523.0	520.0	521.8	519.4	515.1	513.9	510.8	510.8
10°	526.1	524.2	521.8	522.4	519.4	520.0	516.3	510.2	508.4	504.8	503.5
12.5°	530.3	528.5	524.8	526.1	521.8	521.8	516.9	509.6	506.0	501.1	499.9
15°	536.4	533.4	529.1	529.7	525.5	523.0	516.9	508.4	503.5	496.8	495.0
17.5°	537.6	534.6	529.1	529.1	523.6	520.6	513.3	503.5	497.4	490.8	487.1
20°	530.9	527.9	521.8	521.2	516.3	512.1	504.1	494.4	488.3	481.0	478.0
22.5°	516.9	513.3	507.8	507.2	502.3	499.9	491.4	481.6	475.5	468.2	465.8
25°	496.2	494.4	488.9	488.3	484.1	481.0	473.7	464.6	459.1	451.8	449.3
27.5°	471.9	470.0	464.6	464.6	459.7	457.9	451.2	442.6	438.4	431.7	428.6
30°	442.6	440.2	437.2	436.6	432.3	430.5	424.4	416.5	412.2	406.7	405.5
32.5°	407.9	406.1	404.3	403.7	399.4	397.6	393.3	385.4	381.8	376.9	375.1
35°	367.8	366.5	364.7	364.1	362.3	360.5	356.2	350.1	348.3	344.6	342.8
37.5°	321.5	322.7	321.5	321.5	319.7	320.3	316.6	313.0	311.1	308.7	307.5
40°	271.6	274.0	275.8	275.8	275.2	277.6	277.0	274.0	273.4	272.2	271.6
42.5°	221.0	222.2	225.9	228.3	227.7	233.8	234.4	236.9	238.7	237.5	238.1
45°	168.0	171.7	176.6	179.0	182.1	190.0	194.2	199.1	203.4	205.8	205.2
47.5°	121.2	125.4	130.9	134.6	140.0	149.8	160.7	166.8	172.9	176.0	179.0
50°	87.7	91.9	98.6	104.1	107.8	121.2	132.7	140.6	147.3	151.6	154.7
52.5°	61.5	66.4	73.7	78.5	84.0	96.8	110.2	119.3	126.6	132.1	135.2
55°	42.6	48.1	54.8	59.7	65.8	79.2	91.9	101.7	109.6	114.5	118.1
57.5°	29.8	34.7	41.4	45.7	51.8	64.5	77.3	87.1	95.0	99.9	104.1
60°	20.1	25.0	31.7	35.9	40.8	53.6	65.1	75.5	82.8	87.7	91.9
62.5°	14.0	18.3	25.0	29.2	33.5	44.4	55.4	64.5	71.8	77.3	81.0
65°	11.0	14.6	20.1	23.7	28.0	37.1	46.3	54.2	61.5	67.0	69.4
67.5°	7.9	11.6	15.8	18.9	21.9	29.8	37.8	43.8	50.5	54.8	57.8
70°	5.5	7.9	11.6	14.0	16.4	22.5	28.6	34.1	39.0	42.0	44.4
72.5°	4.3	5.5	7.9	9.7	11.6	15.8	20.7	25.0	28.6	31.1	33.5
75°	2.4	3.7	5.5	6.7	7.9	11.0	14.0	17.0	19.5	21.3	22.5
77.5°	1.2	1.8	3.0	3.7	4.9	6.7	9.1	11.0	12.8	14.0	15.2
80°	1.2	1.2	1.8	1.8	2.4	3.7	4.9	6.1	7.3	8.5	9.1
82.5°	0.6	0.6	1.2	1.2	1.2	1.8	2.4	3.7	4.3	4.9	5.5
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	2.4	3.0	3.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P274452

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	524.8	526.1	525.5	526.7	524.8	524.2	525.5	523.6
5°	518.1	518.8	518.1	518.1	516.9	515.7	516.9	515.1
7.5°	507.8	507.8	506.0	506.0	503.5	502.3	502.3	501.7
10°	499.3	497.4	495.6	496.2	492.6	491.4	490.8	490.1
12.5°	495.0	493.8	490.8	490.8	487.1	485.9	485.3	484.7
15°	490.1	487.7	485.3	484.7	481.6	480.4	479.8	478.6
17.5°	481.6	479.8	476.7	476.7	473.7	473.1	471.9	471.3
20°	472.5	470.0	467.6	467.6	464.0	464.0	462.1	462.7
22.5°	459.7	457.9	455.4	455.4	452.4	451.8	450.0	449.3
25°	444.5	442.0	440.2	439.6	437.2	436.0	435.3	434.1
27.5°	424.4	422.6	420.7	419.5	416.5	415.9	414.0	414.6
30°	399.4	398.2	397.6	396.4	392.7	391.5	391.5	389.7
32.5°	372.0	370.2	369.0	367.1	364.1	363.5	361.7	362.3
35°	338.5	336.1	334.3	334.9	331.2	330.6	329.4	330.0
37.5°	303.8	301.4	299.0	298.3	295.3	295.3	293.5	293.5
40°	267.9	265.5	264.3	264.3	260.6	261.2	259.4	258.8
42.5°	235.6	233.2	232.6	232.0	230.2	229.5	227.7	228.3
45°	205.2	204.6	204.6	203.4	201.5	200.9	201.5	201.5
47.5°	178.4	179.0	178.4	178.4	177.2	178.4	177.2	177.8
50°	155.9	157.1	157.1	157.1	156.5	157.1	157.1	157.7
52.5°	137.0	138.8	138.2	138.8	138.2	139.4	138.8	139.4
55°	120.6	121.8	122.4	123.0	123.0	123.0	123.0	123.0
57.5°	105.3	107.2	107.8	108.4	108.4	109.6	108.4	108.4
60°	93.2	95.0	95.6	96.2	96.2	96.8	95.6	96.2
62.5°	82.2	84.0	84.0	84.6	84.6	84.6	83.4	84.0
65°	71.2	71.8	72.5	72.5	71.8	71.8	71.2	71.8
67.5°	59.1	59.7	59.1	59.1	58.5	58.5	57.2	57.8
70°	45.7	45.7	46.3	45.7	45.1	45.7	45.1	44.4
72.5°	34.1	34.1	34.1	33.5	33.5	32.9	33.5	33.5
75°	23.1	23.1	23.7	23.7	23.7	23.7	23.1	23.1
77.5°	15.2	15.2	15.2	15.2	15.8	15.2	15.2	15.2
80°	9.7	9.7	10.4	10.4	9.7	9.7	9.7	9.7
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	3.7	3.7	3.7	3.7	3.0	3.0	3.0	3.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2
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)