

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: P274449

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBSW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBSW0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SINGLE WALLWASH WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 795.4 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

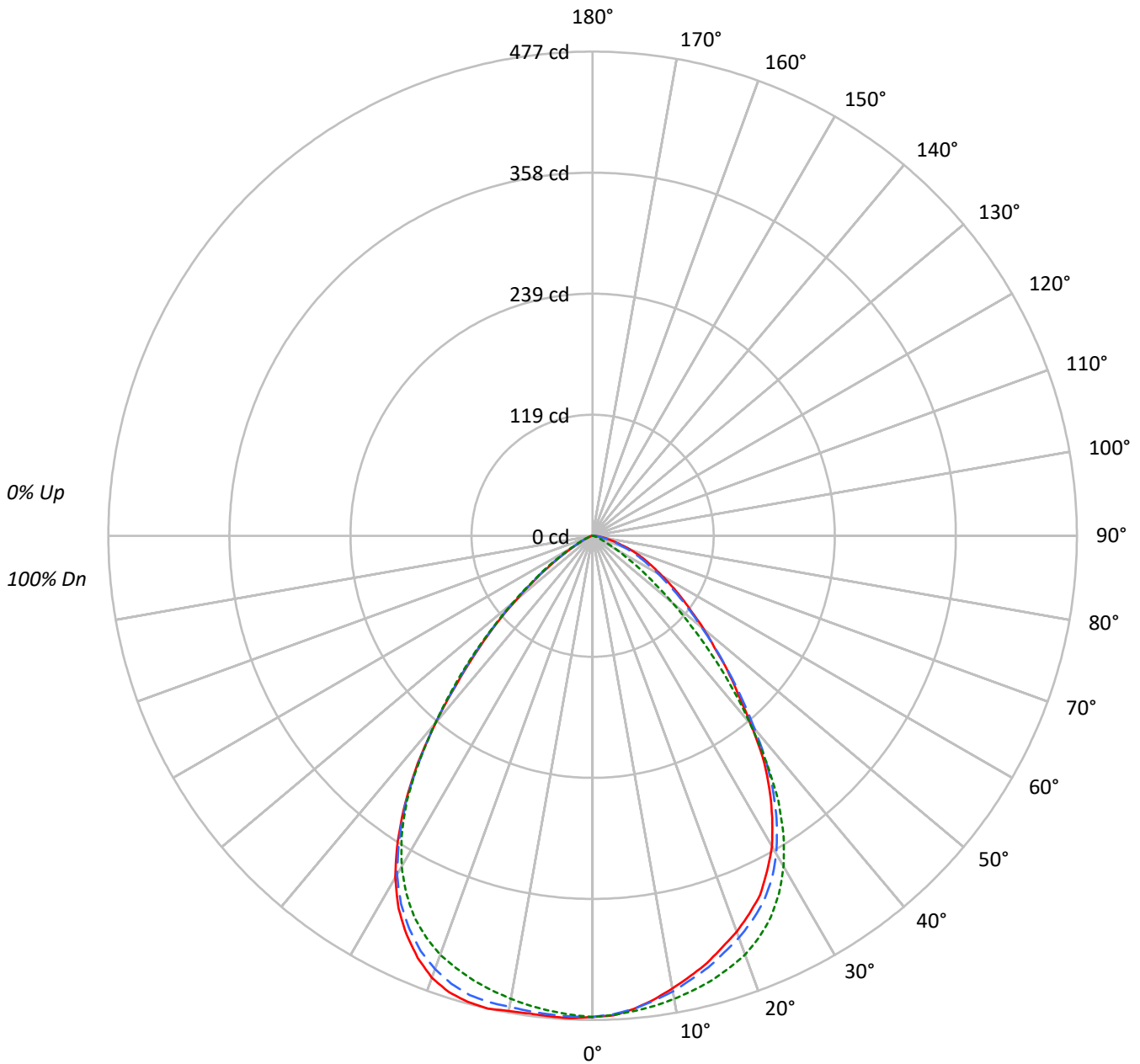
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274449

CATALOG NUMBER: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBSW0H

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30931	30931	30931
5°	30636	30787	31127
10°	30003	30686	31487
15°	29435	30630	32103
20°	28819	30493	32159
25°	28110	29881	31206
30°	26615	28340	29290
35°	24172	25399	25629
40°	20627	20533	20431
45°	17327	15371	14901
50°	14473	10403	9876
55°	12182	6381	5801
60°	10308	3366	2910
65°	8923	1775	1420
70°	7420	1087	763
75°	5495	731	429
80°	4321	413	225
85°	3443	449	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	5.6
10°-20°	127.9	16.1
20°-30°	188.9	23.8
30°-40°	194.7	24.5
40°-50°	134.5	16.9
50°-60°	66.3	8.3
60°-70°	26.9	3.4
70°-80°	9.6	1.2
80°-90°	2.0	0.2
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°	361.5	45.5
0°-40°	556.2	69.9
0°-60°	757.0	95.2
0°-90°	795.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	795.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	468	468	470	474	475	44
15°	436	440	454	468	475	123
25°	390	398	415	427	434	179
35°	304	311	319	321	322	188
45°	188	189	167	164	162	145
55°	107	103	56	53	51	97
65°	58	52	12	9	9	57
75°	22	18	3	2	2	24
85°	5	3	1	0	0	6
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°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	473.0	471.3	472.4	470.1	473.0	470.1	470.7	471.3	470.7	471.3	471.8
5°	467.8	466.1	467.8	465.0	467.8	466.1	466.1	466.7	466.7	467.2	467.8
7.5°	460.9	459.2	460.9	458.1	461.5	459.8	459.8	460.9	460.4	460.9	462.1
10°	452.9	450.6	452.4	450.6	454.1	451.8	452.9	452.9	452.9	454.6	455.8
12.5°	444.3	442.1	444.3	441.5	444.9	443.2	443.8	445.5	446.1	447.2	447.8
15°	435.8	432.9	434.0	432.3	435.8	434.0	434.6	436.9	436.9	438.6	440.3
17.5°	424.9	422.6	424.9	422.6	425.4	424.3	425.4	427.2	427.2	428.9	430.6
20°	415.1	412.8	414.6	412.8	416.3	414.6	415.1	417.4	418.0	419.7	421.4
22.5°	403.1	401.4	402.5	400.8	404.3	403.1	403.7	406.0	406.6	407.7	410.6
25°	390.5	387.1	388.8	387.7	391.1	389.4	390.5	392.8	394.0	395.7	398.0
27.5°	372.2	370.5	371.6	371.6	374.5	372.8	373.3	375.6	377.3	379.1	381.9
30°	353.3	350.4	351.6	352.2	354.4	353.3	354.4	356.7	357.3	359.6	361.9
32.5°	329.2	328.1	330.4	329.2	330.4	330.4	331.0	332.7	333.8	335.0	337.8
35°	303.5	301.2	303.5	302.3	305.2	303.5	305.2	306.9	306.9	309.2	310.9
37.5°	275.4	272.6	273.7	273.7	274.9	274.3	274.3	277.1	277.7	279.4	281.1
40°	242.2	241.1	243.4	242.8	243.4	243.4	243.9	245.6	246.8	247.4	247.9
42.5°	212.4	213.0	213.6	213.6	213.6	213.6	213.6	215.9	215.3	217.0	217.6
45°	187.8	185.5	186.7	186.1	187.8	186.1	187.8	189.5	188.4	190.1	189.0
47.5°	162.6	162.6	162.6	162.0	163.2	162.6	163.8	164.3	164.3	164.3	163.8
50°	142.6	140.9	141.4	141.4	142.0	141.4	142.6	143.2	143.2	142.0	139.7
52.5°	123.1	122.5	122.5	123.7	123.7	123.1	123.1	123.1	123.1	121.4	120.2
55°	107.1	105.9	106.5	106.5	106.5	106.5	107.1	106.5	106.5	104.8	103.1
57.5°	92.8	91.6	91.6	91.6	92.2	91.6	91.6	91.6	91.0	89.3	87.0
60°	79.0	78.4	79.0	79.0	79.6	79.0	79.0	79.0	77.9	76.2	73.9
62.5°	67.6	67.6	67.6	68.1	68.1	67.6	67.6	67.0	66.4	64.1	61.8
65°	57.8	57.3	57.8	57.8	58.4	58.4	57.8	57.3	56.7	54.4	52.1
67.5°	48.1	47.5	48.1	48.1	48.7	48.1	48.1	48.1	46.4	45.2	42.9
70°	38.9	38.4	38.4	38.4	38.9	37.8	38.4	38.4	37.2	35.5	33.2
72.5°	29.8	29.8	29.8	29.8	29.8	29.8	29.2	29.2	28.1	26.3	25.2
75°	21.8	21.8	22.3	22.3	21.8	21.8	21.8	21.2	20.6	19.5	18.3
77.5°	16.0	16.0	16.0	16.0	15.5	15.5	15.5	14.9	14.3	13.7	12.6
80°	11.5	11.5	11.5	10.9	11.5	10.9	10.9	10.9	9.7	9.2	8.6
82.5°	8.0	7.4	7.4	7.4	7.4	7.4	7.4	6.9	6.9	6.3	5.7
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	3.4	3.4
87.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	471.8	471.8	473.0	471.3	474.1	472.4	471.8	474.7	473.0	472.4	473.5
5°	467.8	468.4	469.0	467.8	470.7	469.0	469.0	471.8	470.7	470.1	471.8
7.5°	462.7	463.2	464.4	463.8	466.1	465.0	465.5	468.4	467.2	467.2	469.0
10°	456.4	457.5	458.7	458.7	461.5	460.4	460.4	463.8	462.7	463.2	465.5
12.5°	448.9	450.6	452.4	452.9	455.8	454.1	454.6	458.7	458.1	458.7	460.9
15°	440.9	443.2	444.9	444.9	448.4	446.6	448.4	452.4	451.2	453.5	456.4
17.5°	431.7	434.0	436.3	436.9	440.3	439.2	441.5	445.5	445.5	446.6	450.1
20°	423.2	426.0	427.2	428.9	432.3	431.7	432.9	437.5	437.5	439.2	442.6
22.5°	411.7	414.6	416.9	418.6	421.4	421.4	423.2	427.2	427.2	428.3	431.7
25°	399.1	402.5	404.3	406.0	408.8	408.3	410.0	413.4	414.0	415.1	418.6
27.5°	383.1	385.9	388.2	389.4	393.4	391.1	392.8	396.8	396.2	397.4	400.3
30°	363.0	365.9	368.2	368.2	371.6	371.6	373.3	375.1	375.1	376.2	378.5
32.5°	339.6	343.0	343.0	344.7	347.0	344.7	347.0	349.3	348.1	349.9	351.6
35°	312.6	314.4	314.9	314.9	316.7	316.1	315.5	317.2	316.1	318.9	320.7
37.5°	280.0	282.3	281.1	282.3	281.7	280.0	280.0	282.9	280.6	281.1	282.9
40°	248.5	248.5	247.9	245.1	245.6	243.9	243.4	243.9	241.6	241.1	243.4
42.5°	215.9	215.3	213.6	209.6	210.1	207.3	205.0	205.0	203.8	203.3	203.8
45°	186.7	185.0	182.1	177.5	176.4	174.1	169.5	168.3	166.6	166.6	167.2
47.5°	159.8	157.5	152.9	147.7	144.9	142.0	137.4	135.7	132.8	131.7	132.8
50°	137.4	133.4	127.7	120.2	117.4	113.9	109.4	106.5	103.6	102.5	101.9
52.5°	116.8	111.1	105.4	96.2	93.9	90.5	84.2	81.3	78.4	76.2	76.2
55°	99.1	93.9	85.9	77.3	73.9	70.4	64.1	60.1	57.3	56.1	55.0
57.5°	83.0	77.3	69.9	60.7	57.3	53.8	47.5	43.5	40.7	38.9	37.8
60°	69.9	63.6	56.1	48.1	44.1	40.7	34.4	30.3	27.5	25.8	24.6
62.5°	57.3	52.1	44.7	37.2	33.8	30.3	25.2	21.2	18.3	17.2	15.5
65°	48.1	42.9	36.1	29.8	26.9	23.5	18.9	15.5	13.2	11.5	10.3
67.5°	38.9	34.9	29.2	23.5	20.6	18.3	14.3	11.5	9.2	8.0	7.4
70°	30.9	26.9	22.3	17.8	16.0	13.7	10.9	8.0	6.9	5.7	5.2
72.5°	22.9	20.0	16.6	13.2	11.5	10.3	7.4	6.3	4.6	4.0	3.4
75°	16.6	14.3	12.0	9.2	8.0	7.4	5.7	4.0	3.4	2.9	2.3
77.5°	11.5	10.3	8.0	6.3	5.7	5.2	4.0	2.9	2.3	1.7	1.7
80°	7.4	6.3	5.2	4.0	4.0	3.4	2.3	1.7	1.7	1.1	1.1
82.5°	4.6	4.0	3.4	2.9	2.3	2.3	1.7	1.1	1.1	0.6	0.6
85°	2.9	2.3	1.7	1.7	1.1	1.1	1.1	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	1.1	0.6	0.6	0.6	0.6	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°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	473.5	473.5	474.7	473.0	474.1	474.1	475.3	473.0	474.1	474.7	475.8
5°	471.3	471.8	473.0	472.4	473.0	473.0	474.1	471.3	473.5	473.5	475.3
7.5°	469.0	469.0	470.1	469.5	470.7	471.3	472.4	470.1	472.4	472.4	474.1
10°	466.1	466.1	467.8	467.2	469.0	469.5	471.3	469.0	471.3	471.8	473.5
12.5°	462.1	462.7	464.4	464.4	466.1	467.2	469.0	467.8	470.7	471.3	473.5
15°	457.5	458.7	460.9	460.4	462.1	463.8	466.1	464.4	468.4	469.5	471.8
17.5°	451.8	452.9	454.6	454.6	456.4	457.5	460.4	459.2	462.7	463.2	466.1
20°	443.2	444.9	447.2	446.6	448.4	449.5	451.8	450.6	454.1	455.2	458.1
22.5°	432.9	434.0	435.8	435.8	437.5	438.6	440.9	439.2	442.6	443.2	445.5
25°	419.1	420.3	421.4	422.0	423.7	424.3	425.4	424.3	427.2	427.7	430.6
27.5°	401.4	402.0	403.7	403.7	404.8	405.4	407.1	404.8	408.8	408.8	410.6
30°	380.2	379.6	381.9	380.8	381.9	381.9	383.6	382.5	385.4	384.2	385.9
32.5°	352.2	353.3	353.3	352.2	354.4	353.9	353.9	352.7	354.4	355.0	356.2
35°	319.5	321.2	321.2	321.8	322.4	320.7	321.2	317.8	320.7	321.2	321.8
37.5°	284.0	282.3	283.4	281.7	284.6	281.1	281.1	278.9	281.1	281.1	281.7
40°	243.4	242.8	243.9	242.8	242.2	241.6	240.5	238.8	241.1	239.9	241.6
42.5°	205.0	204.4	204.4	203.3	202.7	202.7	201.6	200.4	199.8	199.8	202.7
45°	165.5	166.6	165.5	164.9	166.1	164.9	165.5	163.2	164.3	163.2	164.3
47.5°	132.3	132.8	131.7	130.6	132.3	130.6	130.6	128.8	131.1	131.1	130.0
50°	102.5	101.9	100.8	101.9	101.4	101.4	101.4	99.6	100.8	99.1	100.2
52.5°	75.6	75.0	75.0	74.4	75.0	74.4	74.4	73.9	73.9	73.3	73.9
55°	55.0	54.4	53.3	53.3	53.3	53.8	53.3	52.7	52.7	52.1	52.7
57.5°	37.2	36.1	36.1	36.1	36.1	35.5	35.5	34.9	35.5	34.9	35.5
60°	24.0	24.0	22.9	22.9	22.9	22.9	22.9	22.3	22.9	22.9	22.9
62.5°	14.9	14.9	14.3	13.7	14.3	13.7	13.7	13.7	14.3	13.7	14.3
65°	9.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	6.9	6.3	6.3	6.3	6.3	6.3	6.3	5.7	6.3	6.3	6.3
70°	4.6	4.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	474.1	474.7	473.5	474.1	473.0	474.1	474.7	475.8
5°	473.0	473.5	472.4	473.5	472.4	473.5	474.1	475.3
7.5°	471.8	473.0	471.8	473.0	471.8	473.0	473.5	474.7
10°	471.8	473.5	472.4	474.1	472.4	473.5	474.7	475.3
12.5°	471.8	473.5	473.0	474.1	473.5	474.7	475.8	477.0
15°	470.7	472.4	471.3	473.0	472.4	473.0	475.3	475.3
17.5°	464.4	466.1	466.1	467.2	467.2	469.0	470.1	471.3
20°	456.4	458.1	457.5	459.2	459.2	460.9	462.1	463.2
22.5°	444.3	446.6	446.1	447.8	447.2	448.4	450.6	450.1
25°	428.9	431.7	431.2	432.3	431.7	431.7	432.9	433.5
27.5°	410.0	411.7	411.1	412.3	411.1	412.3	413.4	414.0
30°	385.4	386.5	385.9	386.5	385.9	387.1	387.7	388.8
32.5°	355.6	357.3	355.6	356.7	356.2	356.2	358.5	357.3
35°	320.1	320.7	321.2	321.2	320.1	320.7	321.8	321.8
37.5°	280.6	283.4	280.0	281.7	281.1	281.1	281.1	282.9
40°	239.3	239.9	238.8	238.8	238.8	238.2	240.5	239.9
42.5°	200.4	201.0	200.4	198.7	199.3	199.3	201.0	198.7
45°	162.6	163.8	163.2	163.2	162.0	162.0	162.6	161.5
47.5°	128.8	130.0	128.3	128.8	127.7	128.8	128.3	129.4
50°	97.9	99.1	98.5	99.1	99.1	97.9	99.6	97.3
52.5°	73.3	73.9	73.3	72.7	72.1	72.1	73.3	72.7
55°	52.1	51.5	51.5	51.5	52.1	52.1	51.5	51.0
57.5°	34.9	34.9	34.4	34.4	34.9	33.8	34.4	33.8
60°	22.3	22.3	22.3	22.3	21.8	22.3	22.3	22.3
62.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
65°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	5.7	6.3	6.3	6.3	5.7	5.7	5.7	5.7
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
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)