

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: P274444

Luminaire Tested: **LD6B15DE010W2N2050 EU6B1020W2N902050 6LBLWW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274444
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: LD6B15DE010W2N2050 EU6B1020W2N902050 6LBLWW0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, LENSED WALLWASH WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 989.2 lumens
Efficiency: N/A
Efficacy: 45.0 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

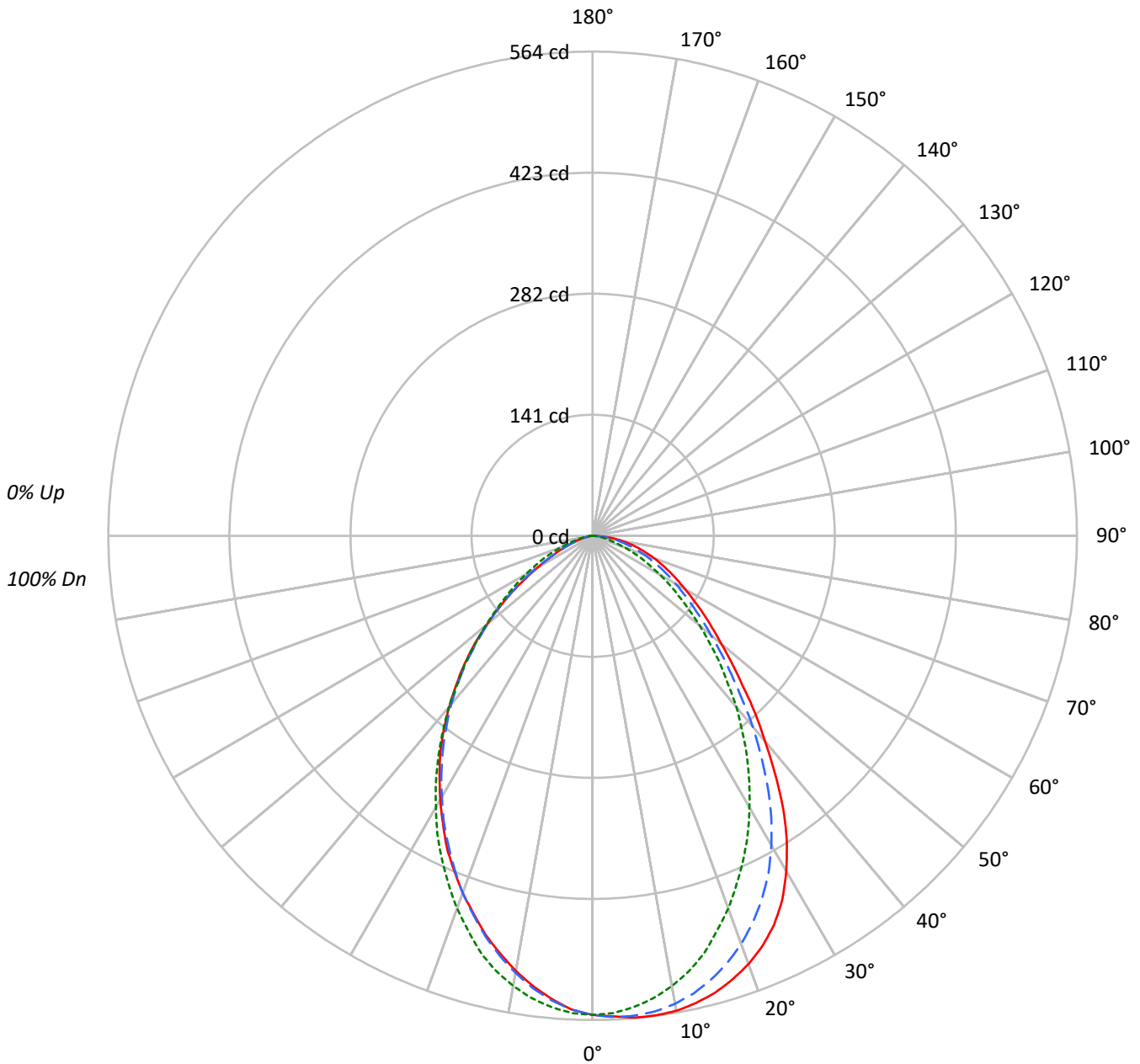
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274444

CATALOG NUMBER: LD6B15DE010W2N2050 EU6B1020W2N902050 6LBLWW0H

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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36411	36411	36411
5°	36904	36091	35482
10°	37224	35277	34091
15°	37222	33974	32508
20°	36859	32069	30729
25°	35985	29903	28902
30°	33983	27504	26743
35°	30806	24937	24634
40°	26606	22177	22109
45°	22808	19311	19449
50°	19822	16524	16280
55°	17812	13934	13046
60°	16180	11730	9603
65°	15190	9695	7055
70°	14497	7535	5169
75°	13864	5470	3529
80°	13112	3795	2329
85°	11603	2321	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	5.3
10°-20°	143.0	14.5
20°-30°	198.5	20.1
30°-40°	205.6	20.8
40°-50°	168.9	17.1
50°-60°	116.1	11.7
60°-70°	66.8	6.7
70°-80°	30.7	3.1
80°-90°	7.5	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°	393.6	39.8
0°-40°	599.2	60.6
0°-60°	884.3	89.4
0°-90°	989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	564	561	551	543	542	54
15°	551	535	503	483	481	155
25°	500	467	415	398	402	229
35°	387	355	313	304	309	240
45°	247	229	209	207	211	193
55°	157	142	122	116	115	141
65°	98	86	63	44	46	98
75°	55	43	22	14	14	58
85°	16	11	3	2	2	17
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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	560.4	565.0	561.9	561.2	562.7	562.7	562.7	560.4	561.9	559.6	561.2
5°	563.5	567.4	564.3	562.7	564.3	565.0	562.7	561.2	563.5	560.4	561.2
7.5°	563.5	567.4	564.3	563.5	564.3	564.3	563.5	560.4	561.9	558.8	558.8
10°	561.9	565.0	561.9	560.4	561.2	560.4	560.4	556.5	557.3	553.4	553.4
12.5°	557.3	561.2	557.3	555.7	555.7	555.7	553.4	550.3	551.1	546.4	545.7
15°	551.1	554.2	550.3	548.8	548.8	548.0	546.4	541.8	541.8	537.1	534.8
17.5°	541.8	544.9	541.8	539.4	538.7	537.1	535.6	530.9	529.4	523.9	521.6
20°	530.9	533.2	530.1	527.8	526.3	524.7	521.6	517.0	515.4	510.0	506.1
22.5°	517.0	520.1	515.4	513.1	511.5	509.2	506.1	501.5	499.1	492.2	487.5
25°	499.9	501.5	497.6	495.3	492.2	490.6	488.3	482.1	479.8	472.0	466.6
27.5°	478.2	479.8	475.1	473.6	469.7	468.1	465.0	459.6	456.5	448.8	443.3
30°	451.1	452.6	449.5	447.2	444.1	441.0	438.7	433.3	428.6	420.9	416.2
32.5°	420.9	423.2	420.1	417.0	411.6	412.3	408.5	403.0	399.2	392.2	386.8
35°	386.8	388.3	384.4	383.7	380.6	377.5	373.6	369.7	367.4	359.6	355.0
37.5°	348.8	352.7	348.8	345.7	344.1	341.8	339.5	334.1	332.5	327.9	321.7
40°	312.4	314.7	312.4	309.3	306.9	306.9	303.8	300.7	296.9	292.2	289.9
42.5°	279.8	278.3	277.5	275.9	272.8	272.1	271.3	267.4	265.1	260.4	256.5
45°	247.2	248.0	246.5	245.7	243.4	241.8	240.3	237.2	236.4	231.7	228.6
47.5°	220.1	219.3	217.8	217.8	216.2	214.7	213.1	210.8	210.0	206.2	203.1
50°	195.3	196.1	195.3	194.5	192.2	191.4	189.9	188.3	186.8	182.9	179.8
52.5°	175.2	174.4	173.6	173.6	171.3	170.5	169.0	167.4	165.9	162.0	159.7
55°	156.6	156.6	155.8	155.0	152.7	151.9	151.1	149.6	147.3	144.2	141.8
57.5°	139.5	139.5	138.7	138.0	136.4	136.4	134.9	133.3	131.8	128.7	125.6
60°	124.0	124.8	124.0	123.2	121.7	121.7	120.9	118.6	117.8	113.9	111.6
62.5°	110.8	110.8	110.8	110.1	109.3	107.7	107.7	105.4	103.9	101.5	98.4
65°	98.4	98.4	98.4	97.7	96.1	95.3	94.6	93.0	91.5	89.1	86.0
67.5°	86.8	86.8	86.8	86.0	84.5	83.7	82.9	82.2	79.8	77.5	74.4
70°	76.0	76.0	75.2	74.4	73.6	72.9	72.1	70.5	69.0	65.9	63.6
72.5°	65.1	65.1	65.1	63.6	62.8	62.8	61.2	60.5	58.9	55.8	53.5
75°	55.0	54.3	54.3	53.5	52.7	51.9	51.2	50.4	48.1	46.5	43.4
77.5°	45.0	45.0	44.2	43.4	43.4	42.6	41.9	40.3	39.5	37.2	34.9
80°	34.9	34.9	34.9	34.9	34.1	33.3	33.3	31.8	31.0	28.7	27.1
82.5°	26.4	25.6	25.6	25.6	24.8	24.0	24.0	23.3	22.5	20.9	19.4
85°	15.5	14.7	14.7	14.7	14.0	14.0	13.2	13.2	12.4	10.9	10.9
87.5°	4.7	4.7	5.4	5.4	4.7	4.7	4.7	4.7	4.7	3.9	3.9
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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	559.6	561.9	558.8	558.1	561.2	559.6	558.8	557.3	558.1	556.5	554.2
5°	558.8	561.9	558.1	555.7	559.6	557.3	555.7	554.2	554.2	551.1	549.5
7.5°	556.5	558.1	554.2	551.9	554.2	551.9	550.3	548.0	547.2	543.3	541.0
10°	550.3	551.9	547.2	544.1	546.4	543.3	541.0	538.7	537.1	532.5	529.4
12.5°	541.8	542.6	537.1	533.2	534.8	532.5	528.6	525.5	523.9	519.3	515.4
15°	530.1	530.9	524.7	519.3	520.8	517.7	513.1	510.0	507.7	503.0	497.6
17.5°	516.2	515.4	508.4	503.0	503.8	499.9	495.3	490.6	487.5	482.1	478.2
20°	500.7	498.4	490.6	484.4	485.2	480.5	475.1	470.5	466.6	461.9	456.5
22.5°	481.3	478.2	471.2	463.5	464.3	460.4	452.6	448.8	444.9	438.7	434.0
25°	460.4	455.7	448.8	441.0	441.0	436.4	430.2	425.5	421.6	415.4	410.0
27.5°	435.6	433.3	424.0	417.8	417.0	412.3	406.9	401.5	396.8	391.4	386.0
30°	408.5	404.6	397.6	390.6	389.1	385.2	379.8	373.6	370.5	365.1	360.4
32.5°	379.8	375.9	368.2	361.2	360.4	357.3	352.7	346.5	343.4	339.5	336.4
35°	347.2	345.7	337.9	332.5	332.5	329.4	324.8	319.3	317.0	313.1	309.3
37.5°	316.2	313.9	306.9	302.3	302.3	298.4	293.8	291.4	289.1	286.0	283.7
40°	283.7	282.1	276.7	272.1	272.8	269.7	266.6	263.5	262.0	260.4	258.1
42.5°	253.4	251.9	248.0	244.1	244.1	241.8	238.7	236.4	234.8	232.5	231.7
45°	226.3	224.0	220.9	217.0	217.0	214.7	213.1	211.6	210.8	209.3	206.9
47.5°	200.0	198.4	195.3	191.4	191.4	191.4	188.3	186.0	186.0	184.5	183.7
50°	177.5	175.2	172.8	169.7	169.7	168.2	165.9	163.5	163.5	162.8	161.2
52.5°	156.6	155.0	151.9	148.8	148.8	147.3	144.9	144.2	143.4	141.1	140.3
55°	138.7	137.2	134.9	131.0	130.2	129.4	127.1	125.6	124.8	122.5	122.5
57.5°	122.5	120.9	117.0	114.7	113.9	112.4	110.1	108.5	107.7	106.2	104.6
60°	108.5	106.2	103.1	100.0	99.2	97.7	95.3	93.8	93.0	89.9	88.4
62.5°	95.3	93.0	89.9	86.8	86.0	84.5	81.4	79.8	78.3	75.2	73.6
65°	82.9	80.6	77.5	74.4	72.9	72.1	69.0	66.7	65.1	62.8	59.7
67.5°	71.3	69.0	65.9	62.0	62.0	59.7	57.4	55.0	52.7	50.4	48.1
70°	60.5	58.1	55.0	51.9	51.2	49.6	47.3	44.2	42.6	39.5	37.2
72.5°	50.4	48.1	45.0	41.9	41.1	39.5	37.2	34.1	31.8	29.5	27.1
75°	41.1	38.8	35.7	33.3	32.6	31.0	28.7	25.6	23.3	21.7	19.4
77.5°	32.6	30.2	27.9	25.6	24.8	23.3	20.9	19.4	17.1	15.5	13.2
80°	24.8	23.3	20.9	19.4	18.6	17.1	15.5	13.2	11.6	10.1	9.3
82.5°	17.8	16.3	14.7	12.4	12.4	10.9	10.1	8.5	7.0	6.2	5.4
85°	10.1	8.5	7.8	7.0	6.2	6.2	5.4	4.7	3.9	3.1	3.1
87.5°	3.1	3.1	2.3	2.3	2.3	2.3	1.6	1.6	1.6	1.6	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	554.2	555.0	553.4	555.0	553.4	554.2	552.6	554.2	552.6	554.2	551.1
5°	548.8	548.8	546.4	548.0	546.4	547.2	544.1	544.9	543.3	544.9	541.8
7.5°	539.4	540.2	536.3	537.9	535.6	535.6	533.2	534.0	531.7	532.5	530.1
10°	528.6	527.8	523.9	525.5	522.4	522.4	520.1	520.1	517.0	517.7	514.6
12.5°	513.1	512.3	507.7	509.2	506.1	506.1	503.8	503.8	500.7	502.2	499.1
15°	495.3	494.5	489.8	490.6	487.5	487.5	484.4	485.2	482.9	484.4	481.3
17.5°	475.1	474.3	469.7	470.5	466.6	467.4	465.0	464.3	462.7	463.5	461.2
20°	454.2	452.6	448.0	448.8	447.2	444.9	443.3	444.1	442.6	444.1	441.8
22.5°	432.5	429.4	425.5	425.5	424.0	424.0	421.6	423.2	420.1	422.4	420.9
25°	407.7	405.4	402.3	403.8	400.7	400.7	398.4	399.2	397.6	399.2	397.6
27.5°	383.7	382.1	377.5	379.0	376.7	377.5	375.1	375.9	375.1	376.7	375.1
30°	358.1	357.3	354.2	354.2	353.4	352.7	351.9	351.9	351.1	353.4	351.9
32.5°	334.1	331.7	328.6	331.0	327.1	329.4	327.9	329.4	327.9	329.4	328.6
35°	309.3	308.5	304.6	305.4	304.6	304.6	303.8	303.8	303.8	306.2	306.2
37.5°	282.9	282.1	279.8	280.6	279.0	278.3	278.3	279.8	279.8	281.4	281.4
40°	257.3	258.1	255.8	255.8	255.0	255.0	255.0	256.5	255.8	257.3	256.5
42.5°	231.7	231.7	229.4	230.2	229.4	230.2	230.2	231.7	231.7	232.5	231.7
45°	207.7	207.7	206.9	207.7	206.2	206.9	206.2	207.7	206.9	207.7	207.7
47.5°	183.7	183.7	183.7	182.9	182.9	182.9	182.9	182.9	182.1	183.7	182.9
50°	161.2	162.0	161.2	161.2	160.4	161.2	160.4	160.4	158.9	159.7	159.7
52.5°	141.1	141.1	139.5	139.5	139.5	138.7	138.7	138.7	138.0	138.0	136.4
55°	121.7	121.7	120.1	120.1	119.4	118.6	117.8	117.8	115.5	115.5	113.2
57.5°	103.9	103.1	100.8	100.8	99.2	98.4	97.7	96.9	95.3	93.8	93.0
60°	87.6	86.0	84.5	83.7	82.2	80.6	79.1	77.5	76.0	75.2	74.4
62.5°	72.1	69.8	68.2	67.4	65.9	63.6	62.0	60.5	58.9	58.1	56.6
65°	58.1	55.8	53.5	52.7	51.2	49.6	47.3	45.7	44.2	43.4	43.4
67.5°	45.7	43.4	40.3	40.3	38.8	37.2	35.7	34.1	33.3	34.1	34.1
70°	34.1	32.6	30.2	29.5	27.9	26.4	25.6	25.6	25.6	26.4	25.6
72.5°	25.6	23.3	21.7	20.9	20.2	19.4	19.4	19.4	18.6	19.4	19.4
75°	17.8	16.3	14.7	14.7	14.0	14.0	14.0	14.0	14.0	14.0	14.0
77.5°	12.4	10.9	10.1	10.1	10.1	9.3	9.3	9.3	9.3	9.3	9.3
80°	7.8	7.8	7.0	7.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	4.7	4.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	2.3	2.3	2.3	2.3	2.3	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	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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CATALOG NUMBER: LD6B15DE010W2N2050 EU6B1020W2N902050 6LBLWW0H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	551.1	553.4	550.3	552.6	551.9	551.1	549.5	552.6
5°	541.8	542.6	539.4	542.6	541.8	540.2	538.7	541.8
7.5°	528.6	530.9	527.0	530.1	529.4	527.8	526.3	529.4
10°	513.9	516.2	513.1	515.4	515.4	513.9	511.5	514.6
12.5°	497.6	499.1	496.0	499.1	498.4	496.8	496.0	498.4
15°	479.8	482.1	479.0	481.3	480.5	479.8	479.0	481.3
17.5°	460.4	462.7	460.4	462.7	462.7	460.4	459.6	461.2
20°	441.0	442.6	440.2	442.6	441.8	441.8	440.2	442.6
22.5°	419.3	421.6	420.1	421.6	420.9	420.9	420.1	421.6
25°	397.6	399.9	397.6	399.9	399.2	399.2	397.6	401.5
27.5°	375.9	377.5	375.1	378.2	377.5	375.9	376.7	377.5
30°	352.7	354.2	352.7	355.0	355.0	355.0	353.4	355.0
32.5°	329.4	331.7	329.4	331.7	331.0	331.0	330.2	331.7
35°	306.2	306.9	305.4	307.7	307.7	308.5	306.9	309.3
37.5°	282.1	282.9	282.1	282.9	284.5	282.1	283.7	284.5
40°	257.3	258.9	258.1	258.9	258.9	259.6	258.9	259.6
42.5°	232.5	234.1	232.5	234.8	234.1	234.1	234.8	234.8
45°	206.9	209.3	207.7	209.3	210.0	209.3	209.3	210.8
47.5°	182.9	184.5	183.7	184.5	184.5	184.5	184.5	186.0
50°	158.9	159.7	159.7	160.4	160.4	161.2	159.7	160.4
52.5°	134.9	136.4	136.4	136.4	135.6	136.4	136.4	136.4
55°	113.2	113.9	112.4	113.9	113.9	113.2	113.2	114.7
57.5°	92.2	92.2	92.2	92.2	92.2	91.5	92.2	92.2
60°	72.9	73.6	72.9	72.9	72.9	72.9	72.1	73.6
62.5°	56.6	56.6	55.8	56.6	56.6	56.6	57.4	57.4
65°	44.2	45.0	44.2	45.0	45.0	45.0	45.0	45.7
67.5°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
70°	26.4	26.4	26.4	27.1	26.4	26.4	26.4	27.1
72.5°	19.4	19.4	19.4	19.4	19.4	19.4	20.2	20.2
75°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
77.5°	9.3	9.3	9.3	10.1	9.3	10.1	9.3	9.3
80°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	1.6	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)