

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: P252339

Luminaire Tested: **LD6B10D010 EU6B10208040 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10D010 EU6B10208040 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 996.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

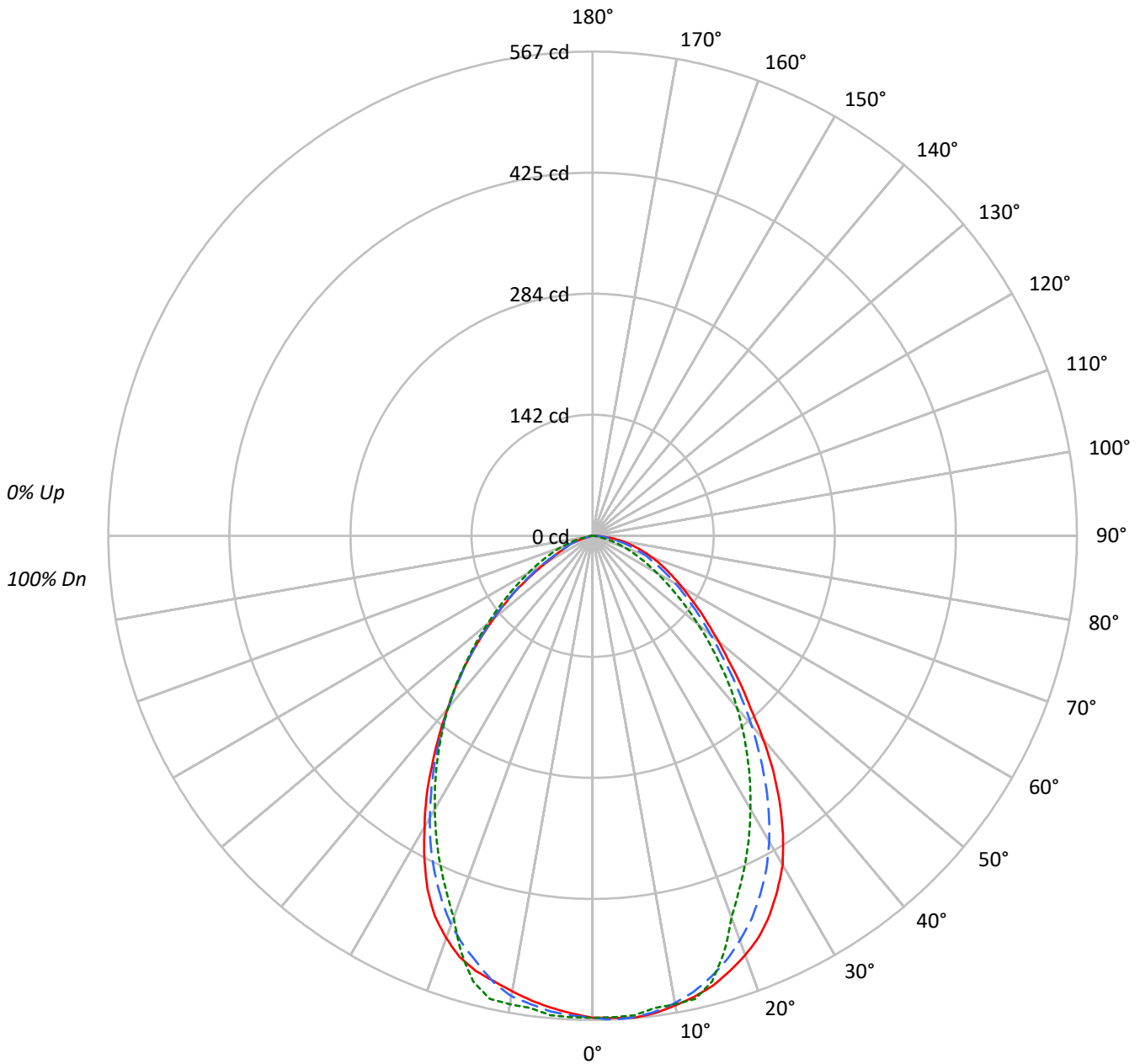
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	36815	36815	36815
5°	37100	36910	36334
10°	36999	36900	35879
15°	36831	36486	35642
20°	36283	33027	34804
25°	35294	30442	32919
30°	33516	27828	29651
35°	30408	25160	26091
40°	26401	22407	22467
45°	22522	19274	19071
50°	19487	16290	15397
55°	17426	13592	11920
60°	15880	11287	8038
65°	14820	9278	5990
70°	14116	7554	5036
75°	13309	5369	1664
80°	12661	2743	564
85°	10405	1647	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	5.4
10°-20°	149.1	15.0
20°-30°	205.7	20.7
30°-40°	209.4	21.0
40°-50°	168.3	16.9
50°-60°	111.9	11.2
60°-70°	63.8	6.4
70°-80°	28.6	2.9
80°-90°	6.0	0.6
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°	408.1	41.0
0°-40°	617.4	62.0
0°-60°	897.6	90.1
0°-90°	996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	564	564	564	564	564	
5°	566	566	564	559	555	54
15°	545	535	540	519	528	153
25°	490	464	423	437	457	225
35°	382	352	316	322	328	237
45°	244	229	209	207	207	189
55°	153	143	120	106	105	138
65°	96	86	60	39	39	96
75°	53	44	21	9	7	56
85°	14	10	2	1	0	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°	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3
2.5°	565.1	568.0	567.3	566.5	567.3	566.5	565.1	565.1	563.6	563.6	567.3
5°	566.5	568.0	567.3	566.5	566.5	567.3	564.3	564.3	562.9	562.1	565.8
7.5°	563.6	565.8	564.3	564.3	563.6	564.3	561.4	561.4	559.2	558.5	562.1
10°	558.5	561.4	559.9	559.9	559.9	558.5	557.0	556.3	554.1	553.3	555.5
12.5°	552.6	554.8	554.1	552.6	552.6	552.6	549.7	549.0	546.0	544.6	546.8
15°	545.3	546.8	546.0	545.3	543.8	543.8	540.9	539.4	536.5	533.6	535.0
17.5°	534.3	536.5	535.0	534.3	532.1	532.1	529.2	527.7	523.3	520.4	521.1
20°	522.6	523.3	522.6	521.1	518.9	518.2	515.2	512.3	508.6	505.0	504.2
22.5°	508.6	509.4	507.2	505.7	503.5	502.8	499.1	496.9	491.1	486.7	485.9
25°	490.3	491.1	491.1	487.4	485.9	484.5	480.8	477.1	472.0	466.1	463.9
27.5°	468.3	470.5	469.1	465.4	462.5	461.7	458.1	455.1	448.5	443.4	440.5
30°	444.9	444.1	443.4	441.2	436.8	436.1	432.4	428.8	423.6	417.0	413.4
32.5°	414.8	414.8	414.1	411.9	407.5	406.0	403.1	398.7	392.8	387.7	384.0
35°	381.8	382.6	381.8	377.4	374.5	373.1	371.6	366.5	361.3	355.5	352.5
37.5°	347.4	345.2	345.9	342.3	338.6	340.1	335.7	333.5	327.6	323.2	320.3
40°	310.0	311.5	308.6	307.1	304.9	302.7	302.7	299.0	296.1	291.0	289.5
42.5°	273.4	275.6	274.8	273.4	270.4	271.2	267.5	266.0	262.4	260.2	258.0
45°	244.1	244.1	244.1	242.6	241.9	240.4	238.2	236.0	233.8	230.9	229.4
47.5°	215.5	215.5	216.2	214.7	213.3	212.5	211.1	211.1	207.4	204.5	203.0
50°	192.0	192.0	192.0	190.6	189.1	189.1	187.6	186.2	184.0	181.8	180.3
52.5°	170.8	170.8	170.8	169.3	168.6	167.8	167.1	166.4	163.4	162.0	160.5
55°	153.2	152.4	152.4	151.7	150.2	150.2	149.5	148.0	145.8	143.7	142.9
57.5°	135.6	136.3	135.6	135.6	134.1	134.1	132.7	131.9	129.7	128.3	126.8
60°	121.7	121.7	121.7	120.9	119.5	120.2	118.7	118.0	115.8	113.6	112.1
62.5°	107.7	108.5	108.5	107.7	106.3	106.3	105.5	104.8	102.6	100.4	98.2
65°	96.0	96.0	96.0	95.3	94.5	94.5	93.8	93.1	90.9	87.9	85.8
67.5°	85.0	84.3	84.3	84.3	83.6	82.8	82.1	81.4	79.2	77.0	74.0
70°	74.0	74.0	74.0	73.3	71.8	72.6	71.8	71.1	68.9	66.7	64.5
72.5°	63.8	63.8	63.0	62.3	62.3	61.6	61.6	60.8	58.6	55.7	53.5
75°	52.8	52.8	52.8	52.8	51.3	52.0	50.6	49.8	48.4	46.2	44.0
77.5°	43.2	43.2	43.2	42.5	41.8	41.8	41.0	40.3	38.1	36.6	33.7
80°	33.7	33.7	33.7	33.7	33.0	32.2	31.5	30.8	29.3	27.1	24.9
82.5°	24.9	24.9	24.2	24.2	24.2	23.5	22.7	22.0	20.5	19.1	17.6
85°	13.9	14.7	14.7	13.2	13.9	13.2	13.2	11.7	11.7	10.3	9.5
87.5°	5.1	4.4	4.4	4.4	4.4	4.4	4.4	3.7	3.7	3.7	2.9
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°	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3
2.5°	564.3	563.6	566.5	566.5	562.1	564.3	565.1	563.6	563.6	564.3	562.1
5°	562.9	561.4	564.3	565.1	560.7	562.9	563.6	562.1	562.9	563.6	560.7
7.5°	557.7	557.7	559.9	560.7	556.3	558.5	558.5	557.0	557.7	557.7	555.5
10°	552.6	550.4	552.6	552.6	549.0	549.7	551.1	550.4	553.3	557.0	557.0
12.5°	543.1	540.9	544.6	544.6	542.4	545.3	549.0	551.1	554.1	555.5	551.1
15°	531.4	532.1	538.7	543.8	541.6	546.0	549.7	548.2	544.6	540.2	533.6
17.5°	516.0	513.8	519.6	522.6	519.6	521.1	524.0	521.1	515.2	511.6	502.8
20°	498.4	492.5	492.5	491.1	485.9	485.9	485.2	480.1	477.9	475.7	472.0
22.5°	478.6	472.0	469.8	465.4	461.0	460.3	458.1	452.9	450.0	448.5	444.1
25°	455.9	450.0	446.3	441.9	435.3	433.9	431.7	426.6	425.1	422.9	419.2
27.5°	432.4	425.1	420.0	415.6	409.7	409.0	404.6	400.9	398.0	396.5	393.6
30°	405.3	397.2	393.6	387.7	383.3	381.8	378.2	373.1	370.9	369.4	367.2
32.5°	375.3	368.7	365.0	359.9	354.0	354.7	350.3	345.9	344.5	343.0	340.8
35°	345.9	339.3	334.9	330.5	326.9	325.4	322.5	318.8	316.6	315.9	314.4
37.5°	313.7	308.6	304.9	300.5	297.6	296.1	294.6	291.0	289.5	289.5	286.6
40°	282.2	277.8	274.8	272.6	269.0	268.2	266.8	264.6	263.8	263.1	260.9
42.5°	253.6	247.7	245.5	244.1	241.9	240.4	239.7	238.2	237.5	236.7	234.5
45°	226.5	221.3	219.1	217.7	215.5	214.7	214.0	211.8	210.3	208.9	208.1
47.5°	200.1	196.4	195.7	192.0	190.6	189.1	187.6	186.2	185.4	184.7	181.8
50°	177.4	175.2	171.5	169.3	167.8	167.1	164.2	162.0	161.2	160.5	158.3
52.5°	156.8	153.9	151.7	148.0	147.3	145.8	144.4	141.5	140.0	139.3	137.1
55°	138.5	136.3	133.4	130.5	128.3	127.5	125.3	122.4	120.9	119.5	118.0
57.5°	123.1	119.5	116.5	113.6	112.1	109.9	107.7	106.3	104.1	101.9	99.7
60°	108.5	105.5	101.9	98.9	97.5	96.0	93.1	90.9	88.7	86.5	84.3
62.5°	94.5	91.6	87.9	85.0	83.6	82.1	79.2	77.0	74.8	72.6	69.6
65°	82.1	79.2	76.2	73.3	71.8	70.4	67.4	64.5	62.3	60.1	57.2
67.5°	71.8	68.2	65.2	62.3	60.8	59.4	56.4	54.2	51.3	49.1	46.2
70°	60.8	57.9	55.7	52.8	51.3	49.8	46.9	44.0	41.8	39.6	36.6
72.5°	51.3	47.6	45.4	42.5	41.0	40.3	37.4	35.2	33.0	30.0	27.9
75°	41.0	38.1	35.2	33.0	31.5	30.8	27.9	25.7	23.5	21.3	19.1
77.5°	31.5	29.3	26.4	24.2	22.7	22.0	19.1	16.9	14.7	13.2	11.0
80°	23.5	20.5	19.1	16.9	16.1	14.7	13.2	11.0	9.5	7.3	5.9
82.5°	16.1	13.9	12.5	11.0	10.3	9.5	8.1	6.6	5.1	4.4	3.7
85°	8.8	7.3	6.6	5.9	5.1	5.1	4.4	3.7	2.9	2.2	1.5
87.5°	2.9	2.2	2.2	2.2	2.2	1.5	1.5	1.5	0.7	0.7	0.7
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°	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3
2.5°	563.6	563.6	563.6	562.9	562.9	562.9	562.1	565.1	562.1	561.4	563.6
5°	562.9	561.4	561.4	561.4	561.4	560.7	559.9	561.4	559.2	558.5	558.5
7.5°	558.5	557.7	557.7	557.0	556.3	555.5	554.8	555.5	553.3	552.6	552.6
10°	559.2	557.7	557.7	555.5	554.1	551.9	549.7	550.4	547.5	545.3	545.3
12.5°	550.4	546.8	544.6	542.4	540.9	540.2	537.2	538.7	535.8	535.0	535.0
15°	530.6	526.2	522.6	521.1	521.1	519.6	517.4	520.4	518.9	519.6	523.3
17.5°	499.8	497.6	495.4	494.7	495.4	496.9	498.4	502.8	502.8	505.0	508.6
20°	472.7	471.3	472.7	472.7	473.5	476.4	479.3	483.0	484.5	486.7	491.8
22.5°	446.3	446.3	447.8	450.0	449.3	454.4	455.1	461.7	461.7	466.1	470.5
25°	420.7	420.7	422.2	422.9	424.4	427.3	430.2	435.3	436.8	441.2	444.9
27.5°	395.8	395.0	395.0	395.8	397.2	400.9	402.4	408.2	410.4	413.4	417.0
30°	367.9	367.2	368.7	370.1	369.4	373.1	375.3	379.6	381.1	384.0	387.0
32.5°	341.5	341.5	341.5	343.0	343.0	345.9	345.9	351.1	351.1	353.3	356.2
35°	314.4	314.4	315.2	315.9	316.6	317.4	318.1	321.0	321.7	322.5	323.9
37.5°	288.8	288.0	288.8	288.8	287.3	290.2	290.2	293.2	291.0	293.2	293.9
40°	262.4	262.4	261.6	261.6	261.6	263.1	261.6	263.8	262.4	263.8	263.1
42.5°	235.3	235.3	233.8	235.3	234.5	234.5	234.5	236.0	233.8	235.3	236.0
45°	208.1	207.4	207.4	206.7	206.7	206.7	207.4	207.4	206.7	208.1	208.1
47.5°	181.8	181.0	181.0	181.0	181.0	181.8	179.6	181.0	179.6	179.6	179.6
50°	159.0	158.3	157.6	156.8	156.1	156.1	155.4	155.4	153.9	153.2	152.4
52.5°	137.1	136.3	134.9	134.9	134.1	133.4	131.2	131.2	129.0	128.3	128.3
55°	117.3	115.1	114.3	112.9	112.9	111.4	109.9	108.5	106.3	104.8	104.8
57.5°	98.9	96.7	95.3	94.5	93.8	92.3	89.4	88.7	85.8	85.0	84.3
60°	82.8	80.6	78.4	77.0	76.2	74.0	71.1	69.6	68.2	66.0	63.8
62.5°	67.4	65.2	62.3	61.6	60.1	57.9	55.7	53.5	52.0	49.8	48.4
65°	54.2	52.0	49.8	48.4	46.9	44.7	42.5	40.3	38.8	38.1	37.4
67.5°	44.0	41.0	38.8	38.1	36.6	35.2	33.0	32.2	30.8	30.8	30.8
70°	34.4	32.2	30.0	29.3	28.6	27.1	25.7	25.7	25.7	25.7	25.7
72.5°	25.7	24.2	22.0	21.3	20.5	19.8	18.3	19.1	18.3	18.3	18.3
75°	16.1	14.7	13.2	12.5	11.7	11.0	10.3	9.5	8.8	8.1	8.1
77.5°	8.8	7.3	6.6	5.9	5.9	5.1	4.4	4.4	3.7	3.7	3.7
80°	5.1	4.4	3.7	2.9	2.9	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	2.9	2.2	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
85°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	564.3	564.3	564.3	564.3	564.3	564.3	564.3	564.3
2.5°	559.9	562.1	559.9	562.1	562.1	562.1	562.1	559.9
5°	556.3	557.7	555.5	557.0	557.7	557.0	557.0	554.8
7.5°	549.7	551.1	549.0	551.1	551.9	551.1	550.4	549.0
10°	543.1	543.8	541.6	543.1	544.6	544.6	543.8	541.6
12.5°	532.8	535.0	532.8	534.3	535.8	536.5	536.5	534.3
15°	521.1	524.8	523.3	525.5	527.7	528.4	528.4	527.7
17.5°	509.4	513.0	510.8	514.5	516.7	518.2	518.9	517.4
20°	492.5	496.9	495.4	498.4	501.3	503.5	503.5	501.3
22.5°	470.5	476.4	475.7	477.9	481.5	482.3	483.7	482.3
25°	446.3	450.7	450.0	452.2	456.6	456.6	457.3	457.3
27.5°	418.5	422.9	422.2	423.6	426.6	427.3	428.0	426.6
30°	388.4	390.6	390.6	392.8	395.0	395.8	395.8	393.6
32.5°	355.5	358.4	359.9	359.1	361.3	362.8	362.1	362.1
35°	325.4	326.1	326.9	327.6	328.3	329.8	328.3	327.6
37.5°	293.2	295.4	293.9	295.4	296.8	296.1	295.4	295.4
40°	263.8	264.6	263.1	264.6	265.3	265.3	265.3	263.8
42.5°	234.5	236.0	234.5	236.0	236.0	236.0	236.0	235.3
45°	205.2	206.7	206.7	207.4	207.4	206.7	206.7	206.7
47.5°	178.1	179.6	178.1	179.6	180.3	178.8	178.8	178.8
50°	152.4	151.7	151.7	152.4	152.4	152.4	152.4	151.7
52.5°	126.1	126.8	126.8	126.8	127.5	126.8	127.5	127.5
55°	103.3	103.3	103.3	104.1	103.3	103.3	104.1	104.8
57.5°	82.8	82.1	81.4	81.4	82.1	81.4	81.4	81.4
60°	63.8	63.0	62.3	62.3	62.3	62.3	62.3	61.6
62.5°	47.6	47.6	47.6	48.4	48.4	48.4	48.4	49.1
65°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.8
67.5°	30.8	30.8	30.8	31.5	31.5	31.5	31.5	31.5
70°	25.7	25.7	26.4	25.7	26.4	26.4	26.4	26.4
72.5°	17.6	17.6	17.6	17.6	17.6	16.9	17.6	16.9
75°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.6
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)