

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: P252554

Luminaire Tested: **LD6B10D010 EU6B10209050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252554
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: LD6B10D010 EU6B10209050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 923.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

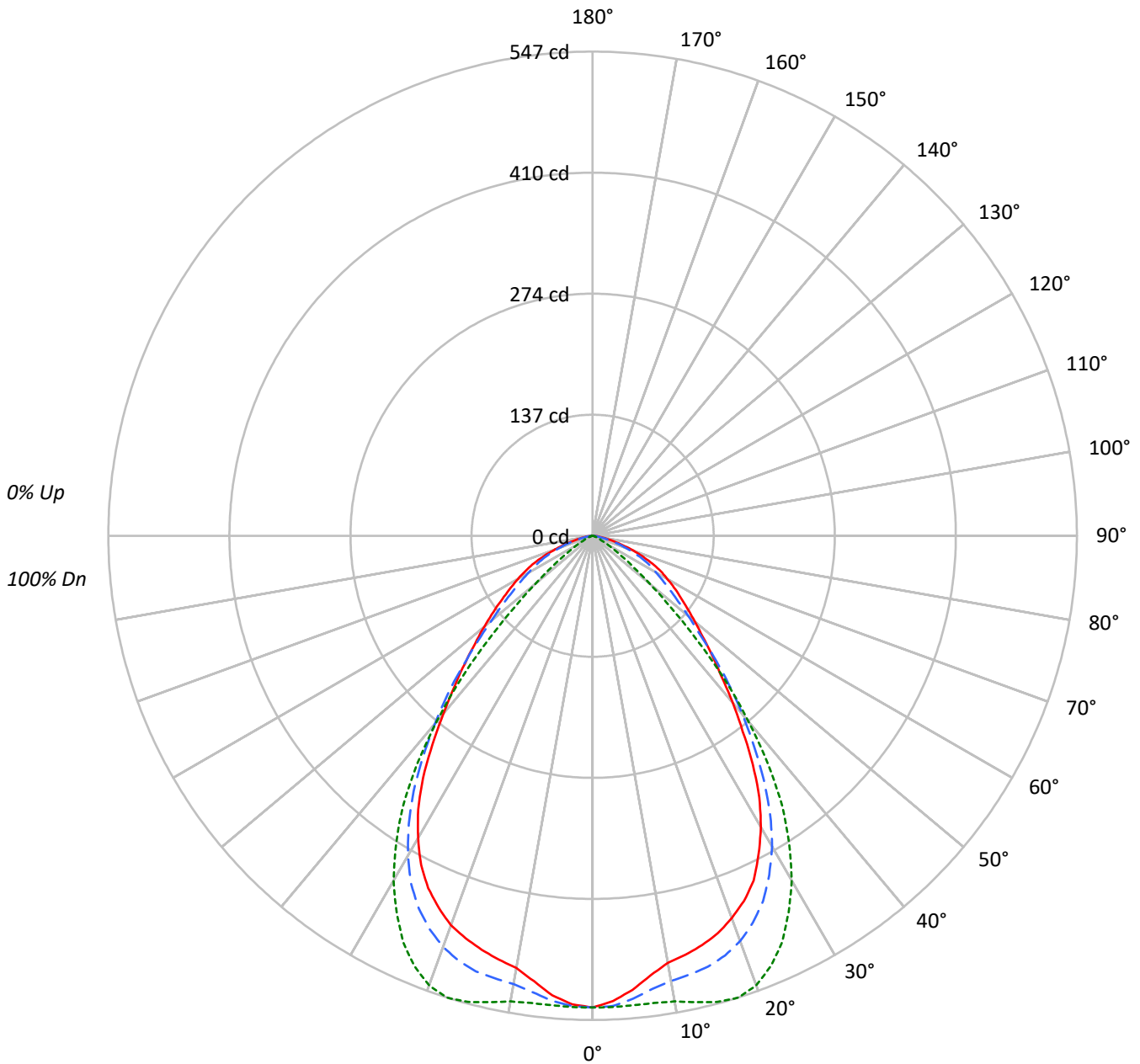
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	34767	34767	34767
5°	33727	34860	34133
10°	32448	35383	32852
15°	32332	36824	32704
20°	31909	37512	32506
25°	30954	36453	31623
30°	28634	33877	29704
35°	25120	29779	26593
40°	20934	23344	22296
45°	17622	15408	18813
50°	15255	8445	16199
55°	13808	4481	14150
60°	12696	2336	12696
65°	11501	1235	11223
70°	9290	706	8584
75°	6377	454	5898
80°	4170	225	3719
85°	2770	449	2321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	5.4
10°-20°	143.7	15.6
20°-30°	212.3	23.0
30°-40°	214.4	23.2
40°-50°	147.8	16.0
50°-60°	84.9	9.2
60°-70°	49.4	5.4
70°-80°	18.0	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°	405.7	44.0
0°-40°	620.1	67.2
0°-60°	852.8	92.4
0°-90°	923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	923.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	533	533	533	533	533	
5°	515	525	532	527	521	48
15°	479	504	545	510	484	135
25°	430	455	506	464	439	196
35°	315	337	374	352	334	196
45°	191	193	167	206	204	149
55°	121	107	39	111	124	109
65°	74	63	8	62	73	73
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°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
2.5°	526.1	526.7	527.3	526.7	527.3	529.8	528.0	529.2	529.2	529.8	531.7
5°	515.0	515.0	516.3	515.6	517.5	520.0	518.1	520.0	520.6	521.8	524.9
7.5°	500.9	500.9	501.5	501.5	503.9	506.4	505.2	507.6	510.1	512.6	516.3
10°	489.8	491.0	491.0	491.6	494.1	497.2	496.5	499.6	502.1	505.8	510.7
12.5°	484.8	485.5	485.5	486.7	489.2	492.2	491.6	494.7	498.4	502.7	507.6
15°	478.7	479.9	479.3	480.5	483.0	486.1	485.5	488.5	492.8	497.2	503.9
17.5°	470.7	471.3	471.9	471.9	474.4	476.8	476.8	479.9	484.8	489.8	497.2
20°	459.6	460.8	460.8	461.4	463.3	467.0	466.4	469.4	474.4	479.3	487.3
22.5°	446.6	447.3	447.3	447.9	451.0	452.8	453.4	455.9	460.2	465.7	473.1
25°	430.0	430.6	430.0	431.9	433.1	436.8	435.6	438.6	443.6	447.9	455.3
27.5°	406.0	407.2	407.2	407.8	410.9	414.0	414.0	417.1	421.4	424.5	431.9
30°	380.1	382.0	380.1	383.2	384.4	386.9	388.7	390.6	394.3	398.6	405.4
32.5°	350.5	349.9	350.5	351.8	355.5	357.3	358.5	360.4	364.1	367.8	373.3
35°	315.4	316.7	317.3	319.7	319.7	322.8	323.4	324.7	330.2	332.7	337.0
37.5°	278.5	279.7	280.3	281.5	284.0	285.2	287.1	288.9	292.6	296.9	299.4
40°	245.8	245.8	246.4	247.7	249.5	250.1	252.0	254.4	256.9	260.6	263.1
42.5°	215.0	215.6	215.0	216.2	218.1	220.6	219.9	223.0	223.6	226.1	227.9
45°	191.0	191.0	189.7	191.0	191.0	193.4	192.8	194.1	193.4	194.7	193.4
47.5°	168.2	168.8	168.2	168.8	168.8	168.8	169.4	168.2	168.8	167.0	163.3
50°	150.3	150.9	149.7	150.3	149.7	149.1	149.7	147.9	147.2	144.8	141.1
52.5°	134.9	134.3	133.7	133.7	133.7	133.1	132.5	130.6	128.8	126.3	122.0
55°	121.4	120.7	120.1	120.1	118.9	118.3	118.3	116.4	114.6	111.5	106.6
57.5°	109.0	108.4	107.8	107.8	107.2	106.0	106.0	104.1	101.7	98.0	93.6
60°	97.3	97.3	97.3	96.7	96.7	95.5	95.5	93.6	91.2	87.5	82.6
62.5°	86.9	86.2	86.2	86.2	86.2	85.6	85.0	83.8	81.3	77.6	73.3
65°	74.5	74.5	74.5	74.5	73.9	73.9	73.9	72.1	70.8	67.2	62.8
67.5°	61.0	61.0	61.0	61.0	60.4	61.0	61.0	59.8	58.5	54.8	51.1
70°	48.7	48.1	47.4	48.1	47.4	47.4	48.1	46.8	46.2	43.1	39.4
72.5°	35.7	36.3	35.7	35.7	35.7	35.1	35.7	35.1	33.9	31.4	29.0
75°	25.3	25.9	25.9	25.3	25.3	25.3	24.6	24.6	23.4	21.6	20.3
77.5°	17.2	17.2	17.2	17.2	16.6	16.6	16.6	16.0	15.4	14.2	12.9
80°	11.1	11.1	11.1	11.1	10.5	10.5	10.5	9.9	9.9	8.6	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.2	6.2	5.5	4.9	4.3
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.1	3.1	2.5	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°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
2.5°	530.4	531.0	531.0	531.0	532.9	533.5	531.7	529.8	533.5	532.9	534.1
5°	524.3	526.1	527.3	528.0	529.8	531.0	529.2	528.6	531.7	532.3	532.9
7.5°	516.9	520.0	523.0	524.3	526.7	528.0	527.3	527.3	531.0	532.3	532.3
10°	511.9	516.3	520.0	523.0	526.1	528.0	528.0	528.6	532.9	534.1	535.4
12.5°	510.7	516.3	521.2	525.5	528.0	531.0	531.7	533.5	537.8	539.7	539.7
15°	507.6	515.0	521.2	526.7	530.4	534.1	535.4	539.1	544.0	545.2	546.4
17.5°	502.1	509.5	516.9	523.7	528.6	531.7	535.4	539.1	545.2	547.1	547.7
20°	492.2	500.9	508.3	515.0	520.0	524.3	528.0	532.3	537.8	540.3	540.9
22.5°	477.4	486.1	493.5	500.9	505.8	509.5	513.2	518.1	523.7	526.1	526.1
25°	459.6	467.6	475.6	481.1	486.1	490.4	492.2	497.8	503.3	506.4	506.4
27.5°	436.8	444.2	451.6	457.7	460.8	464.5	467.6	472.5	476.8	479.3	481.8
30°	407.8	415.2	422.0	428.2	431.9	435.6	438.6	442.3	446.6	449.7	450.3
32.5°	376.4	382.6	389.4	395.5	399.2	400.4	403.5	407.2	410.9	413.4	414.0
35°	341.9	346.2	350.5	356.1	359.8	359.8	362.9	365.3	368.4	373.9	372.7
37.5°	301.3	307.4	310.5	312.3	314.8	317.3	317.9	321.0	324.7	325.9	327.7
40°	263.1	264.9	266.8	266.8	269.2	269.2	269.2	269.8	273.5	274.1	276.6
42.5°	224.9	224.9	223.0	221.2	221.8	221.2	218.1	218.1	219.9	222.4	222.4
45°	189.1	184.8	179.3	175.0	171.9	170.6	167.0	167.0	166.3	167.0	169.4
47.5°	158.9	151.6	142.3	133.7	130.6	128.1	122.6	120.1	118.9	119.5	120.7
50°	133.7	125.7	115.2	104.7	99.2	96.1	89.3	85.0	84.4	83.2	85.6
52.5°	115.2	105.3	94.3	81.9	76.4	71.5	64.1	60.4	57.9	57.9	58.5
55°	99.2	88.7	76.4	64.1	58.5	54.8	47.4	42.5	40.0	39.4	41.3
57.5°	85.6	75.8	63.5	51.1	45.6	41.3	33.9	29.6	27.7	26.5	27.1
60°	75.2	65.3	53.0	41.3	36.3	31.4	25.3	20.3	17.9	17.9	18.5
62.5°	65.3	56.1	45.0	33.9	29.6	25.3	18.5	14.2	12.3	11.7	12.3
65°	55.4	46.8	37.6	28.3	24.0	20.3	14.8	11.1	8.6	8.0	8.6
67.5°	45.0	38.2	30.2	22.8	19.1	16.0	11.1	8.0	6.2	5.5	6.2
70°	35.1	29.0	22.8	16.6	14.2	11.7	8.0	6.2	4.3	3.7	4.3
72.5°	25.3	20.9	16.0	11.7	9.9	8.0	5.5	4.3	3.1	2.5	3.1
75°	17.2	14.2	10.5	7.4	6.2	5.5	3.7	2.5	1.8	1.8	1.8
77.5°	11.1	8.6	6.8	4.9	3.7	3.1	1.8	1.2	1.2	1.2	1.2
80°	6.2	4.9	3.7	2.5	1.8	1.8	1.2	1.2	0.6	0.6	0.6
82.5°	3.7	2.5	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°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
2.5°	531.7	532.3	530.4	532.9	531.0	533.5	533.5	531.0	531.7	530.4	532.9
5°	530.4	530.4	529.2	531.0	528.6	531.0	530.4	526.1	527.3	524.9	527.3
7.5°	530.4	529.2	527.3	529.2	526.1	528.0	525.5	521.2	520.0	516.9	516.9
10°	532.3	530.4	528.0	528.6	525.5	526.1	522.4	516.3	514.4	510.7	509.5
12.5°	536.6	534.7	531.0	532.3	528.0	528.0	523.0	515.6	511.9	507.0	505.8
15°	542.8	539.7	535.4	536.0	531.7	529.2	523.0	514.4	509.5	502.7	500.9
17.5°	544.0	540.9	535.4	535.4	529.8	526.7	519.3	509.5	503.3	496.5	492.8
20°	537.2	534.1	528.0	527.3	522.4	518.1	510.1	500.2	494.1	486.7	483.6
22.5°	523.0	519.3	513.8	513.2	508.3	505.8	497.2	487.3	481.1	473.8	471.3
25°	502.1	500.2	494.7	494.1	489.8	486.7	479.3	470.1	464.5	457.1	454.7
27.5°	477.4	475.6	470.1	470.1	465.1	463.3	456.5	447.9	443.6	436.8	433.7
30°	447.9	445.4	442.3	441.7	437.4	435.6	429.4	421.4	417.1	411.5	410.3
32.5°	412.8	410.9	409.1	408.4	404.1	402.3	398.0	390.0	386.3	381.3	379.5
35°	372.1	370.9	369.0	368.4	366.6	364.7	360.4	354.2	352.4	348.7	346.8
37.5°	325.3	326.5	325.3	325.3	323.4	324.0	320.4	316.7	314.8	312.3	311.1
40°	274.8	277.2	279.1	279.1	278.5	280.9	280.3	277.2	276.6	275.4	274.8
42.5°	223.6	224.9	228.6	231.0	230.4	236.6	237.2	239.6	241.5	240.3	240.9
45°	170.0	173.7	178.7	181.1	184.2	192.2	196.5	201.5	205.8	208.2	207.6
47.5°	122.6	126.9	132.5	136.1	141.7	151.6	162.6	168.8	175.0	178.0	181.1
50°	88.7	93.0	99.8	105.3	109.0	122.6	134.3	142.3	149.1	153.4	156.5
52.5°	62.2	67.2	74.5	79.5	85.0	98.0	111.5	120.7	128.1	133.7	136.8
55°	43.1	48.7	55.4	60.4	66.5	80.1	93.0	102.9	110.9	115.8	119.5
57.5°	30.2	35.1	41.9	46.2	52.4	65.3	78.2	88.1	96.1	101.0	105.3
60°	20.3	25.3	32.0	36.3	41.3	54.2	65.9	76.4	83.8	88.7	93.0
62.5°	14.2	18.5	25.3	29.6	33.9	45.0	56.1	65.3	72.7	78.2	81.9
65°	11.1	14.8	20.3	24.0	28.3	37.6	46.8	54.8	62.2	67.8	70.2
67.5°	8.0	11.7	16.0	19.1	22.2	30.2	38.2	44.4	51.1	55.4	58.5
70°	5.5	8.0	11.7	14.2	16.6	22.8	29.0	34.5	39.4	42.5	45.0
72.5°	4.3	5.5	8.0	9.9	11.7	16.0	20.9	25.3	29.0	31.4	33.9
75°	2.5	3.7	5.5	6.8	8.0	11.1	14.2	17.2	19.7	21.6	22.8
77.5°	1.2	1.8	3.1	3.7	4.9	6.8	9.2	11.1	12.9	14.2	15.4
80°	1.2	1.2	1.8	1.8	2.5	3.7	4.9	6.2	7.4	8.6	9.2
82.5°	0.6	0.6	1.2	1.2	1.2	1.8	2.5	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	2.5	3.1	3.1
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
2.5°	531.0	532.3	531.7	532.9	531.0	530.4	531.7	529.8
5°	524.3	524.9	524.3	524.3	523.0	521.8	523.0	521.2
7.5°	513.8	513.8	511.9	511.9	509.5	508.3	508.3	507.6
10°	505.2	503.3	501.5	502.1	498.4	497.2	496.5	495.9
12.5°	500.9	499.6	496.5	496.5	492.8	491.6	491.0	490.4
15°	495.9	493.5	491.0	490.4	487.3	486.1	485.5	484.2
17.5°	487.3	485.5	482.4	482.4	479.3	478.7	477.4	476.8
20°	478.1	475.6	473.1	473.1	469.4	469.4	467.6	468.2
22.5°	465.1	463.3	460.8	460.8	457.7	457.1	455.3	454.7
25°	449.7	447.3	445.4	444.8	442.3	441.1	440.5	439.3
27.5°	429.4	427.5	425.7	424.5	421.4	420.8	418.9	419.5
30°	404.1	402.9	402.3	401.1	397.4	396.1	396.1	394.3
32.5°	376.4	374.6	373.3	371.5	368.4	367.8	365.9	366.6
35°	342.5	340.1	338.2	338.8	335.1	334.5	333.3	333.9
37.5°	307.4	305.0	302.5	301.9	298.8	298.8	296.9	296.9
40°	271.1	268.6	267.4	267.4	263.7	264.3	262.4	261.8
42.5°	238.4	236.0	235.3	234.7	232.9	232.3	230.4	231.0
45°	207.6	207.0	207.0	205.8	203.9	203.3	203.9	203.9
47.5°	180.5	181.1	180.5	180.5	179.3	180.5	179.3	179.9
50°	157.7	158.9	158.9	158.9	158.3	158.9	158.9	159.6
52.5°	138.6	140.5	139.8	140.5	139.8	141.1	140.5	141.1
55°	122.0	123.2	123.8	124.4	124.4	124.4	124.4	124.4
57.5°	106.6	108.4	109.0	109.7	109.7	110.9	109.7	109.7
60°	94.3	96.1	96.7	97.3	97.3	98.0	96.7	97.3
62.5°	83.2	85.0	85.0	85.6	85.6	85.6	84.4	85.0
65°	72.1	72.7	73.3	73.3	72.7	72.7	72.1	72.7
67.5°	59.8	60.4	59.8	59.8	59.1	59.1	57.9	58.5
70°	46.2	46.2	46.8	46.2	45.6	46.2	45.6	45.0
72.5°	34.5	34.5	34.5	33.9	33.9	33.3	33.9	33.9
75°	23.4	23.4	24.0	24.0	24.0	24.0	23.4	23.4
77.5°	15.4	15.4	15.4	15.4	16.0	15.4	15.4	15.4
80°	9.9	9.9	10.5	10.5	9.9	9.9	9.9	9.9
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	3.7	3.7	3.7	3.7	3.1	3.1	3.1	3.1
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)