

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: P252338

Luminaire Tested: **LD6B10D010 EU6B10208035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252338
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 EU6B10208035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 985.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

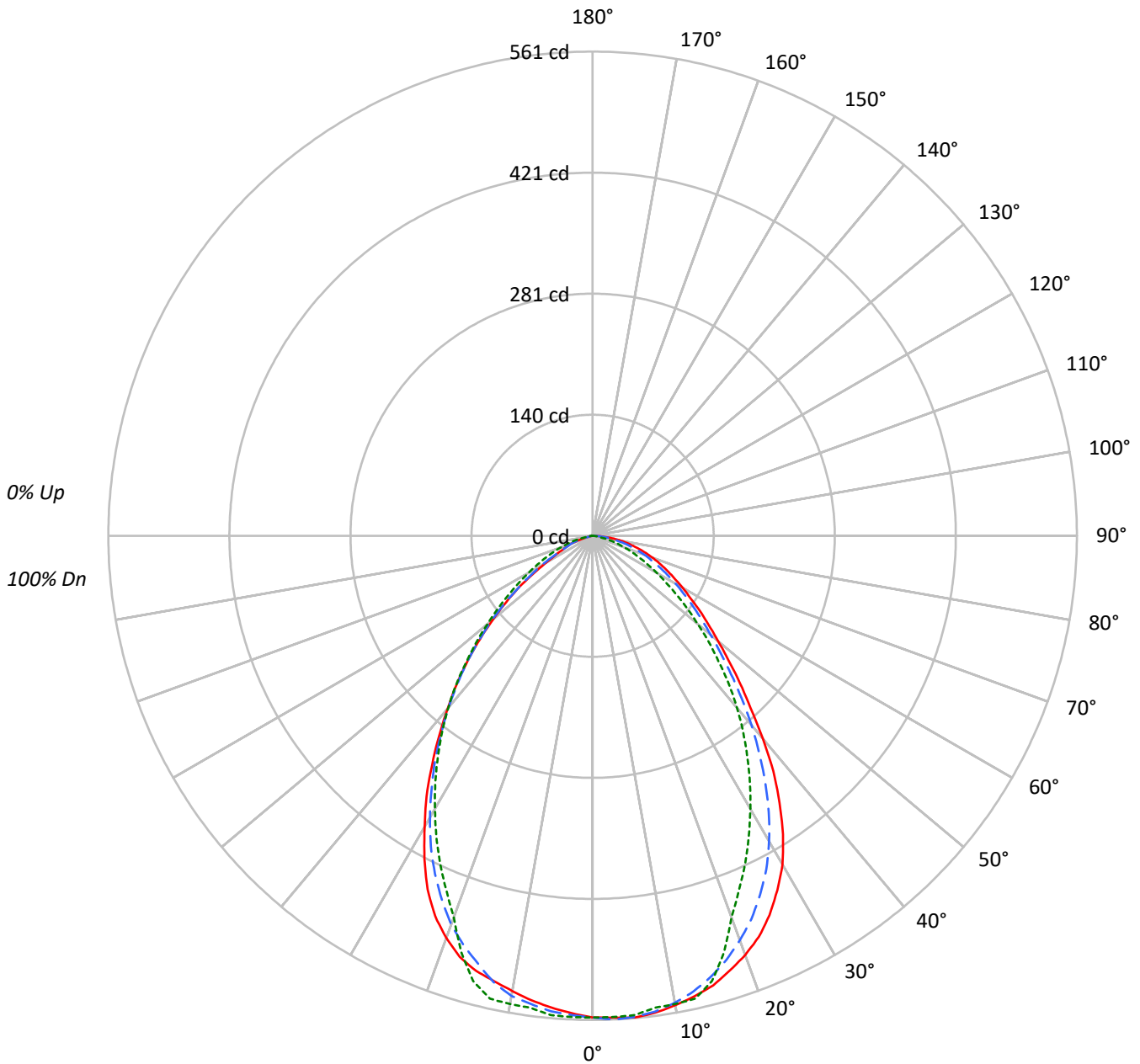
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	36411	36411	36411
5°	36694	36504	35934
10°	36588	36496	35482
15°	36425	36081	35250
20°	35880	32659	34422
25°	34906	30104	32559
30°	33147	27519	29320
35°	30074	24881	25805
40°	26112	22160	22220
45°	22273	19062	18859
50°	19274	16107	15224
55°	17232	13433	11784
60°	15697	11156	7946
65°	14665	9170	5928
70°	13963	7458	4979
75°	13158	5293	1638
80°	12511	2705	526
85°	10330	1647	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	5.4
10°-20°	147.4	15.0
20°-30°	203.5	20.7
30°-40°	207.0	21.0
40°-50°	166.4	16.9
50°-60°	110.6	11.2
60°-70°	63.1	6.4
70°-80°	28.3	2.9
80°-90°	5.9	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°	403.6	41.0
0°-40°	610.6	62.0
0°-60°	887.7	90.1
0°-90°	985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	560	560	557	553	549	53
15°	539	529	534	513	522	152
25°	485	459	418	432	452	222
35°	378	349	312	318	324	235
45°	241	227	207	204	204	187
55°	152	141	118	105	104	136
65°	95	85	59	38	38	95
75°	52	44	21	9	6	56
85°	14	9	2	1	0	16
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°	558.8	561.7	561.0	560.3	561.0	560.3	558.8	558.8	557.4	557.4	561.0
5°	560.3	561.7	561.0	560.3	560.3	561.0	558.1	558.1	556.7	555.9	559.6
7.5°	557.4	559.6	558.1	558.1	557.4	558.1	555.2	555.2	553.0	552.3	555.9
10°	552.3	555.2	553.8	553.8	553.8	552.3	550.9	550.1	548.0	547.2	549.4
12.5°	546.5	548.7	548.0	546.5	546.5	546.5	543.6	542.9	540.0	538.5	540.7
15°	539.3	540.7	540.0	539.3	537.8	537.8	534.9	533.5	530.6	527.7	529.1
17.5°	528.4	530.6	529.1	528.4	526.2	526.2	523.3	521.9	517.5	514.6	515.3
20°	516.8	517.5	516.8	515.3	513.2	512.4	509.5	506.6	503.0	499.4	498.7
22.5°	503.0	503.7	501.6	500.1	497.9	497.2	493.6	491.4	485.6	481.3	480.6
25°	484.9	485.6	485.6	482.0	480.6	479.1	475.5	471.9	466.8	461.0	458.8
27.5°	463.2	465.3	463.9	460.3	457.4	456.6	453.0	450.1	443.6	438.5	435.6
30°	440.0	439.2	438.5	436.3	432.0	431.3	427.6	424.0	418.9	412.4	408.8
32.5°	410.2	410.2	409.5	407.3	403.0	401.5	398.6	394.3	388.5	383.4	379.8
35°	377.6	378.4	377.6	373.3	370.4	368.9	367.5	362.4	357.3	351.5	348.6
37.5°	343.6	341.4	342.1	338.5	334.9	336.3	332.0	329.8	324.0	319.6	316.7
40°	306.6	308.0	305.1	303.7	301.5	299.3	299.3	295.7	292.8	287.8	286.3
42.5°	270.4	272.5	271.8	270.4	267.5	268.2	264.6	263.1	259.5	257.3	255.1
45°	241.4	241.4	241.4	239.9	239.2	237.7	235.6	233.4	231.2	228.3	226.9
47.5°	213.1	213.1	213.8	212.4	210.9	210.2	208.7	208.7	205.1	202.2	200.8
50°	189.9	189.9	189.9	188.5	187.0	187.0	185.6	184.1	181.9	179.8	178.3
52.5°	168.9	168.9	168.9	167.4	166.7	166.0	165.3	164.5	161.6	160.2	158.7
55°	151.5	150.8	150.8	150.0	148.6	148.6	147.9	146.4	144.2	142.1	141.3
57.5°	134.1	134.8	134.1	134.1	132.6	132.6	131.2	130.5	128.3	126.8	125.4
60°	120.3	120.3	120.3	119.6	118.1	118.9	117.4	116.7	114.5	112.3	110.9
62.5°	106.5	107.3	107.3	106.5	105.1	105.1	104.4	103.6	101.5	99.3	97.1
65°	95.0	95.0	95.0	94.2	93.5	93.5	92.8	92.1	89.9	87.0	84.8
67.5°	84.1	83.4	83.4	83.4	82.6	81.9	81.2	80.5	78.3	76.1	73.2
70°	73.2	73.2	73.2	72.5	71.0	71.8	71.0	70.3	68.1	66.0	63.8
72.5°	63.1	63.1	62.3	61.6	61.6	60.9	60.9	60.2	58.0	55.1	52.9
75°	52.2	52.2	52.2	52.2	50.7	51.5	50.0	49.3	47.8	45.7	43.5
77.5°	42.8	42.8	42.8	42.0	41.3	41.3	40.6	39.9	37.7	36.2	33.3
80°	33.3	33.3	33.3	33.3	32.6	31.9	31.2	30.4	29.0	26.8	24.6
82.5°	24.6	24.6	23.9	23.9	23.9	23.2	22.5	21.7	20.3	18.8	17.4
85°	13.8	14.5	14.5	13.0	13.8	13.0	13.0	11.6	11.6	10.1	9.4
87.5°	5.1	4.3	4.3	4.3	4.3	4.3	4.3	3.6	3.6	3.6	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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	558.1	557.4	560.3	560.3	555.9	558.1	558.8	557.4	557.4	558.1	555.9
5°	556.7	555.2	558.1	558.8	554.5	556.7	557.4	555.9	556.7	557.4	554.5
7.5°	551.6	551.6	553.8	554.5	550.1	552.3	552.3	550.9	551.6	551.6	549.4
10°	546.5	544.3	546.5	546.5	542.9	543.6	545.1	544.3	547.2	550.9	550.9
12.5°	537.1	534.9	538.5	538.5	536.4	539.3	542.9	545.1	548.0	549.4	545.1
15°	525.5	526.2	532.7	537.8	535.6	540.0	543.6	542.2	538.5	534.2	527.7
17.5°	510.3	508.1	513.9	516.8	513.9	515.3	518.2	515.3	509.5	505.9	497.2
20°	492.9	487.1	487.1	485.6	480.6	480.6	479.8	474.8	472.6	470.4	466.8
22.5°	473.3	466.8	464.6	460.3	455.9	455.2	453.0	447.9	445.0	443.6	439.2
25°	450.8	445.0	441.4	437.1	430.5	429.1	426.9	421.8	420.4	418.2	414.6
27.5°	427.6	420.4	415.3	411.0	405.2	404.4	400.1	396.5	393.6	392.1	389.2
30°	400.8	392.9	389.2	383.4	379.1	377.6	374.0	368.9	366.8	365.3	363.1
32.5°	371.1	364.6	361.0	355.9	350.1	350.8	346.5	342.1	340.7	339.2	337.0
35°	342.1	335.6	331.2	326.9	323.3	321.8	318.9	315.3	313.1	312.4	310.9
37.5°	310.2	305.1	301.5	297.2	294.3	292.8	291.4	287.8	286.3	286.3	283.4
40°	279.1	274.7	271.8	269.6	266.0	265.3	263.8	261.7	260.9	260.2	258.0
42.5°	250.8	245.0	242.8	241.4	239.2	237.7	237.0	235.6	234.8	234.1	231.9
45°	224.0	218.9	216.7	215.3	213.1	212.4	211.6	209.5	208.0	206.6	205.8
47.5°	197.9	194.3	193.5	189.9	188.5	187.0	185.6	184.1	183.4	182.7	179.8
50°	175.4	173.2	169.6	167.4	166.0	165.3	162.4	160.2	159.5	158.7	156.6
52.5°	155.1	152.2	150.0	146.4	145.7	144.2	142.8	139.9	138.4	137.7	135.5
55°	137.0	134.8	131.9	129.0	126.8	126.1	123.9	121.0	119.6	118.1	116.7
57.5°	121.8	118.1	115.2	112.3	110.9	108.7	106.5	105.1	102.9	100.7	98.6
60°	107.3	104.4	100.7	97.9	96.4	95.0	92.1	89.9	87.7	85.5	83.4
62.5°	93.5	90.6	87.0	84.1	82.6	81.2	78.3	76.1	73.9	71.8	68.9
65°	81.2	78.3	75.4	72.5	71.0	69.6	66.7	63.8	61.6	59.4	56.5
67.5°	71.0	67.4	64.5	61.6	60.2	58.7	55.8	53.6	50.7	48.6	45.7
70°	60.2	57.3	55.1	52.2	50.7	49.3	46.4	43.5	41.3	39.1	36.2
72.5°	50.7	47.1	44.9	42.0	40.6	39.9	37.0	34.8	32.6	29.7	27.5
75°	40.6	37.7	34.8	32.6	31.2	30.4	27.5	25.4	23.2	21.0	18.8
77.5°	31.2	29.0	26.1	23.9	22.5	21.7	18.8	16.7	14.5	13.0	10.9
80°	23.2	20.3	18.8	16.7	15.9	14.5	13.0	10.9	9.4	7.2	5.8
82.5°	15.9	13.8	12.3	10.9	10.1	9.4	8.0	6.5	5.1	4.3	3.6
85°	8.7	7.2	6.5	5.8	5.1	5.1	4.3	3.6	2.9	2.2	1.4
87.5°	2.9	2.2	2.2	2.2	2.2	1.4	1.4	1.4	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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	557.4	557.4	557.4	556.7	556.7	556.7	555.9	558.8	555.9	555.2	557.4
5°	556.7	555.2	555.2	555.2	555.2	554.5	553.8	555.2	553.0	552.3	552.3
7.5°	552.3	551.6	551.6	550.9	550.1	549.4	548.7	549.4	547.2	546.5	546.5
10°	553.0	551.6	551.6	549.4	548.0	545.8	543.6	544.3	541.4	539.3	539.3
12.5°	544.3	540.7	538.5	536.4	534.9	534.2	531.3	532.7	529.8	529.1	529.1
15°	524.8	520.4	516.8	515.3	515.3	513.9	511.7	514.6	513.2	513.9	517.5
17.5°	494.3	492.2	490.0	489.3	490.0	491.4	492.9	497.2	497.2	499.4	503.0
20°	467.5	466.1	467.5	467.5	468.2	471.1	474.0	477.7	479.1	481.3	486.4
22.5°	441.4	441.4	442.9	445.0	444.3	449.4	450.1	456.6	456.6	461.0	465.3
25°	416.0	416.0	417.5	418.2	419.7	422.6	425.5	430.5	432.0	436.3	440.0
27.5°	391.4	390.7	390.7	391.4	392.9	396.5	397.9	403.7	405.9	408.8	412.4
30°	363.9	363.1	364.6	366.0	365.3	368.9	371.1	375.5	376.9	379.8	382.7
32.5°	337.8	337.8	337.8	339.2	339.2	342.1	342.1	347.2	347.2	349.4	352.3
35°	310.9	310.9	311.7	312.4	313.1	313.8	314.6	317.5	318.2	318.9	320.4
37.5°	285.6	284.9	285.6	285.6	284.1	287.0	287.0	289.9	287.8	289.9	290.7
40°	259.5	259.5	258.8	258.8	258.8	260.2	258.8	260.9	259.5	260.9	260.2
42.5°	232.7	232.7	231.2	232.7	231.9	231.9	231.9	233.4	231.2	232.7	233.4
45°	205.8	205.1	205.1	204.4	204.4	204.4	205.1	205.1	204.4	205.8	205.8
47.5°	179.8	179.0	179.0	179.0	179.0	179.8	177.6	179.0	177.6	177.6	177.6
50°	157.3	156.6	155.8	155.1	154.4	154.4	153.7	153.7	152.2	151.5	150.8
52.5°	135.5	134.8	133.4	133.4	132.6	131.9	129.7	129.7	127.6	126.8	126.8
55°	116.0	113.8	113.1	111.6	111.6	110.2	108.7	107.3	105.1	103.6	103.6
57.5°	97.9	95.7	94.2	93.5	92.8	91.3	88.4	87.7	84.8	84.1	83.4
60°	81.9	79.7	77.6	76.1	75.4	73.2	70.3	68.9	67.4	65.2	63.1
62.5°	66.7	64.5	61.6	60.9	59.4	57.3	55.1	52.9	51.5	49.3	47.8
65°	53.6	51.5	49.3	47.8	46.4	44.2	42.0	39.9	38.4	37.7	37.0
67.5°	43.5	40.6	38.4	37.7	36.2	34.8	32.6	31.9	30.4	30.4	30.4
70°	34.1	31.9	29.7	29.0	28.3	26.8	25.4	25.4	25.4	25.4	25.4
72.5°	25.4	23.9	21.7	21.0	20.3	19.6	18.1	18.8	18.1	18.1	18.1
75°	15.9	14.5	13.0	12.3	11.6	10.9	10.1	9.4	8.7	8.0	8.0
77.5°	8.7	7.2	6.5	5.8	5.8	5.1	4.3	4.3	3.6	3.6	3.6
80°	5.1	4.3	3.6	2.9	2.9	2.2	2.2	2.2	2.2	1.4	1.4
82.5°	2.9	2.2	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
85°	1.4	1.4	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°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	553.8	555.9	553.8	555.9	555.9	555.9	555.9	553.8
5°	550.1	551.6	549.4	550.9	551.6	550.9	550.9	548.7
7.5°	543.6	545.1	542.9	545.1	545.8	545.1	544.3	542.9
10°	537.1	537.8	535.6	537.1	538.5	538.5	537.8	535.6
12.5°	526.9	529.1	526.9	528.4	529.8	530.6	530.6	528.4
15°	515.3	519.0	517.5	519.7	521.9	522.6	522.6	521.9
17.5°	503.7	507.4	505.2	508.8	511.0	512.4	513.2	511.7
20°	487.1	491.4	490.0	492.9	495.8	497.9	497.9	495.8
22.5°	465.3	471.1	470.4	472.6	476.2	476.9	478.4	476.9
25°	441.4	445.8	445.0	447.2	451.6	451.6	452.3	452.3
27.5°	413.9	418.2	417.5	418.9	421.8	422.6	423.3	421.8
30°	384.2	386.3	386.3	388.5	390.7	391.4	391.4	389.2
32.5°	351.5	354.4	355.9	355.2	357.3	358.8	358.1	358.1
35°	321.8	322.5	323.3	324.0	324.7	326.2	324.7	324.0
37.5°	289.9	292.1	290.7	292.1	293.6	292.8	292.1	292.1
40°	260.9	261.7	260.2	261.7	262.4	262.4	262.4	260.9
42.5°	231.9	233.4	231.9	233.4	233.4	233.4	233.4	232.7
45°	202.9	204.4	204.4	205.1	205.1	204.4	204.4	204.4
47.5°	176.1	177.6	176.1	177.6	178.3	176.9	176.9	176.9
50°	150.8	150.0	150.0	150.8	150.8	150.8	150.8	150.0
52.5°	124.7	125.4	125.4	125.4	126.1	125.4	126.1	126.1
55°	102.2	102.2	102.2	102.9	102.2	102.2	102.9	103.6
57.5°	81.9	81.2	80.5	80.5	81.2	80.5	80.5	80.5
60°	63.1	62.3	61.6	61.6	61.6	61.6	61.6	60.9
62.5°	47.1	47.1	47.1	47.8	47.8	47.8	47.8	48.6
65°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	38.4
67.5°	30.4	30.4	30.4	31.2	31.2	31.2	31.2	31.2
70°	25.4	25.4	26.1	25.4	26.1	26.1	26.1	26.1
72.5°	17.4	17.4	17.4	17.4	17.4	16.7	17.4	16.7
75°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.5
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)