

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: P252671

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1192.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

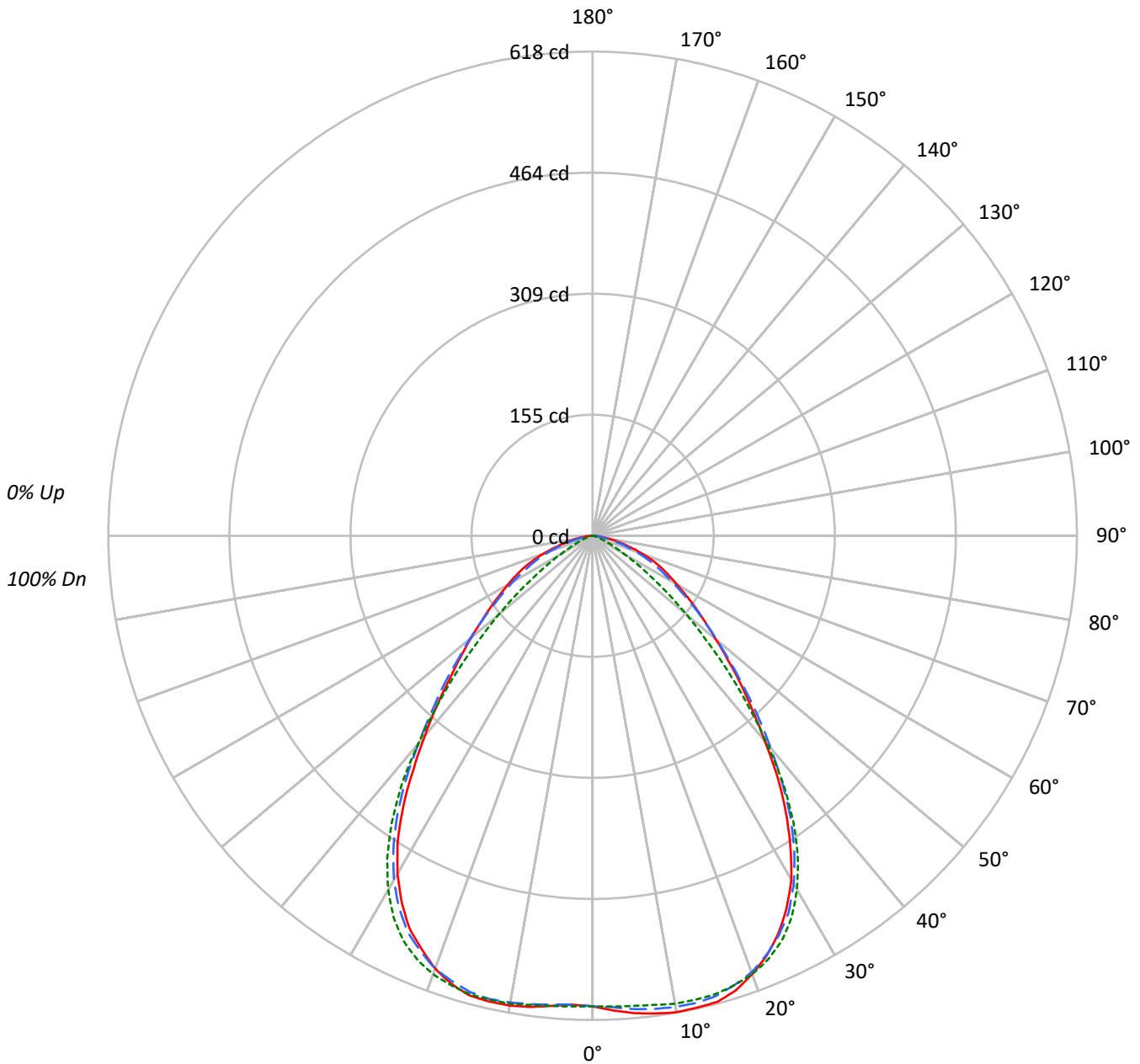
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	44	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39184	39184	39184
5°	40054	39445	39445
10°	40908	40179	40344
15°	41592	40910	41025
20°	41344	41344	40810
25°	40355	41089	39808
30°	38202	39294	37501
35°	34231	35585	33554
40°	29084	29442	28360
45°	24607	22494	23749
50°	20776	15864	20523
55°	18256	10237	18062
60°	16180	6093	16297
65°	14943	3674	14943
70°	12971	2098	12647
75°	10284	1286	9629
80°	7664	939	7326
85°	6962	599	6363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	4.9
10°-20°	171.1	14.4
20°-30°	257.4	21.6
30°-40°	270.6	22.7
40°-50°	202.1	17.0
50°-60°	125.8	10.6
60°-70°	71.6	6.0
70°-80°	29.5	2.5
80°-90°	6.1	0.5
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°	486.3	40.8
0°-40°	756.9	63.5
0°-60°	1084.9	91.0
0°-90°	1192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	601	601	601	601	601	
5°	612	606	602	601	602	59
15°	616	608	606	603	607	173
25°	561	562	571	558	553	257
35°	430	441	447	434	421	267
45°	267	273	244	268	257	207
55°	160	157	90	155	159	144
65°	97	87	24	87	97	95
75°	41	32	5	31	38	44
85°	9	6	1	5	8	10
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°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	606.5	605.7	606.5	604.8	604.0	604.0	604.8	603.1	602.3	603.1	602.3
5°	611.6	609.9	610.7	609.9	608.2	608.2	609.0	606.5	606.5	607.4	606.5
7.5°	615.0	615.0	615.0	613.3	612.4	611.6	613.3	610.7	609.9	609.9	609.0
10°	617.5	616.7	617.5	615.8	614.1	613.3	615.0	613.3	611.6	613.3	610.7
12.5°	616.7	616.7	616.7	615.8	614.1	613.3	615.0	612.4	611.6	612.4	610.7
15°	615.8	613.3	614.1	613.3	610.7	610.7	611.6	609.0	607.4	609.9	608.2
17.5°	608.2	606.5	607.4	605.7	604.0	603.1	604.0	603.1	601.4	603.1	601.4
20°	595.5	595.5	596.3	594.6	592.9	592.1	593.8	592.1	590.4	592.9	592.9
22.5°	580.2	580.2	580.2	579.3	578.5	578.5	578.5	577.6	576.8	578.5	579.3
25°	560.6	559.8	560.6	561.5	560.6	559.8	560.6	560.6	558.9	562.3	562.3
27.5°	536.0	536.0	537.7	536.8	536.8	536.0	537.7	537.7	536.8	539.4	541.9
30°	507.1	505.4	507.1	507.1	508.0	508.0	508.8	508.8	508.8	511.4	513.1
32.5°	469.7	470.6	473.1	472.3	471.4	474.0	474.0	475.7	476.5	478.2	479.1
35°	429.8	430.7	430.7	431.5	433.2	431.5	435.8	434.9	435.8	439.2	440.9
37.5°	387.3	384.8	389.0	387.3	388.2	388.2	389.9	390.7	393.3	397.5	397.5
40°	341.5	342.3	344.0	344.9	345.7	345.7	345.7	348.3	349.1	354.2	353.4
42.5°	301.6	301.6	303.3	304.1	304.1	304.1	304.1	306.6	308.3	310.0	311.7
45°	266.7	264.2	265.9	265.9	267.6	266.7	268.4	270.1	271.0	273.5	272.7
47.5°	233.6	232.7	233.6	234.4	233.6	234.4	235.3	236.1	237.0	237.0	237.0
50°	204.7	204.7	205.6	206.4	206.4	206.4	206.4	207.3	207.3	209.0	207.3
52.5°	180.9	181.8	181.8	180.9	181.8	181.8	182.6	182.6	181.8	181.8	179.2
55°	160.5	159.7	160.5	159.7	160.5	160.5	159.7	159.7	158.8	158.0	157.1
57.5°	141.0	141.0	141.0	141.0	140.2	141.0	140.2	139.3	139.3	137.6	135.1
60°	124.0	124.0	124.0	124.0	124.0	123.2	124.0	123.2	121.5	119.8	116.4
62.5°	109.6	108.7	109.6	108.7	108.7	107.9	107.9	107.0	105.3	103.6	100.2
65°	96.8	97.7	96.8	96.8	96.0	95.1	95.1	94.3	91.7	90.0	86.6
67.5°	83.2	82.4	82.4	82.4	81.5	81.5	81.5	79.8	78.1	75.6	72.2
70°	68.0	68.0	68.0	67.1	67.1	66.3	66.3	65.4	63.7	62.0	57.8
72.5°	53.5	53.5	53.5	51.8	52.7	51.8	51.8	50.1	49.3	46.7	44.2
75°	40.8	40.8	39.9	39.9	39.1	38.2	38.2	37.4	36.5	34.8	32.3
77.5°	29.7	29.7	29.7	28.9	28.0	27.2	27.2	26.3	25.5	24.6	22.9
80°	20.4	20.4	20.4	20.4	19.5	18.7	18.7	17.8	17.8	17.0	15.3
82.5°	13.6	13.6	13.6	13.6	12.7	12.7	12.7	11.9	11.0	11.0	9.3
85°	9.3	9.3	8.5	8.5	8.5	8.5	7.6	7.6	6.8	5.9	5.9
87.5°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	4.2	3.4	3.4	2.5
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°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	604.8	604.8	604.0	601.4	602.3	601.4	602.3	601.4	598.9	601.4	598.9
5°	608.2	609.0	607.4	604.0	604.8	604.0	604.0	603.1	600.6	602.3	600.6
7.5°	611.6	610.7	609.9	606.5	607.4	606.5	606.5	604.8	602.3	604.0	601.4
10°	613.3	613.3	611.6	608.2	608.2	607.4	608.2	607.4	604.0	606.5	604.8
12.5°	613.3	612.4	612.4	608.2	609.0	608.2	609.0	607.4	604.8	606.5	605.7
15°	610.7	610.7	609.9	605.7	606.5	606.5	607.4	605.7	603.1	605.7	604.0
17.5°	605.7	605.7	604.8	601.4	603.1	603.1	604.0	602.3	599.7	601.4	601.4
20°	595.5	596.3	596.3	593.8	595.5	595.5	596.3	595.5	594.6	595.5	593.8
22.5°	583.6	585.3	585.3	582.7	584.4	584.4	587.0	586.1	584.4	585.3	584.4
25°	565.7	567.4	569.1	567.4	569.1	569.1	571.7	570.8	569.1	570.8	568.3
27.5°	545.3	546.2	547.9	546.2	548.7	547.9	550.4	549.6	547.0	549.6	548.7
30°	516.5	519.9	522.4	519.9	522.4	522.4	524.1	523.3	522.4	521.6	521.6
32.5°	484.2	487.6	487.6	486.7	488.4	488.4	489.3	487.6	486.7	487.6	488.4
35°	444.3	446.0	447.7	446.8	447.7	448.5	447.7	448.5	446.0	446.8	446.8
37.5°	400.9	402.6	402.6	400.1	401.8	401.8	400.1	400.1	398.4	400.1	396.7
40°	355.1	353.4	354.2	352.5	350.8	350.8	350.0	346.6	344.9	345.7	346.6
42.5°	310.0	310.0	307.5	303.3	299.0	299.0	296.5	294.8	291.4	293.1	292.2
45°	271.8	267.6	264.2	257.4	254.8	253.1	248.9	244.6	242.9	243.8	242.9
47.5°	235.3	231.9	223.4	214.1	211.5	209.0	203.9	198.8	197.1	195.4	195.4
50°	204.7	198.8	189.4	179.2	175.0	170.7	163.9	158.8	155.4	156.3	156.3
52.5°	176.7	169.9	158.8	146.1	141.0	135.9	130.0	124.0	121.5	120.6	120.6
55°	152.1	144.4	133.4	118.9	114.7	108.7	101.1	94.3	90.9	90.0	91.7
57.5°	130.0	123.2	110.4	96.0	90.9	84.9	77.3	71.4	67.1	66.3	67.1
60°	112.1	102.8	91.7	78.1	71.4	66.3	57.8	52.7	48.4	46.7	47.6
62.5°	94.3	85.8	74.8	61.2	56.1	51.0	43.3	37.4	34.0	33.1	34.0
65°	80.7	72.2	62.0	50.1	45.0	39.9	33.1	27.2	24.6	23.8	24.6
67.5°	67.1	59.5	51.0	39.9	35.7	31.4	24.6	20.4	17.0	16.1	17.0
70°	54.4	47.6	39.1	31.4	27.2	23.8	18.7	14.4	11.9	11.0	11.9
72.5°	40.8	35.7	29.7	22.9	20.4	17.8	13.6	10.2	8.5	7.6	8.5
75°	29.7	25.5	21.2	16.1	14.4	12.7	9.3	6.8	5.9	5.1	5.9
77.5°	20.4	17.8	14.4	11.0	9.3	8.5	5.9	5.1	4.2	3.4	3.4
80°	13.6	11.9	9.3	7.6	6.8	5.9	4.2	3.4	2.5	2.5	2.5
82.5°	8.5	6.8	5.9	4.2	3.4	3.4	2.5	1.7	1.7	1.7	1.7
85°	5.1	4.2	3.4	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	600.6	598.9	598.9	599.7	600.6	601.4	599.7	598.9	598.9	601.4	599.7
5°	600.6	599.7	599.7	599.7	601.4	602.3	600.6	599.7	600.6	603.1	602.3
7.5°	603.1	601.4	602.3	602.3	603.1	604.8	603.1	602.3	603.1	605.7	604.0
10°	604.8	603.1	604.0	603.1	605.7	606.5	604.8	604.0	604.8	608.2	607.4
12.5°	605.7	604.8	604.8	604.0	606.5	607.4	605.7	604.8	605.7	608.2	607.4
15°	604.0	603.1	603.1	603.1	604.8	606.5	604.0	603.1	603.1	605.7	604.8
17.5°	600.6	598.9	598.9	598.9	599.7	600.6	598.0	597.2	596.3	598.9	598.0
20°	594.6	592.9	591.2	591.2	592.1	592.1	590.4	587.8	587.8	588.7	587.0
22.5°	583.6	582.7	581.0	580.2	581.9	581.0	577.6	575.1	574.2	575.1	573.4
25°	568.3	566.6	565.7	564.9	565.7	564.9	561.5	558.1	558.1	558.1	555.5
27.5°	547.0	545.3	544.5	544.5	545.3	543.6	540.2	536.8	535.1	535.1	532.6
30°	519.9	519.9	519.0	518.2	517.3	517.3	512.2	508.8	507.1	508.0	506.3
32.5°	486.7	485.9	485.0	482.5	483.3	482.5	478.2	475.7	473.1	471.4	470.6
35°	444.3	444.3	443.4	443.4	443.4	442.6	438.3	435.8	434.1	433.2	430.7
37.5°	397.5	396.7	395.8	395.8	395.8	395.8	393.3	390.7	390.7	389.9	388.2
40°	344.9	345.7	346.6	345.7	348.3	350.8	347.4	345.7	344.9	347.4	344.0
42.5°	293.9	293.1	297.3	298.2	298.2	302.4	303.3	304.1	303.3	304.9	304.9
45°	244.6	243.8	248.0	249.7	254.0	259.1	261.6	265.9	267.6	269.3	267.6
47.5°	197.9	201.3	204.7	209.0	212.4	220.9	226.0	230.2	231.9	234.4	234.4
50°	158.8	162.2	168.2	171.6	175.8	186.0	194.5	200.5	203.9	206.4	205.6
52.5°	122.3	128.3	135.9	139.3	145.3	157.1	166.5	173.3	177.5	180.1	180.9
55°	94.3	99.4	107.0	112.1	118.1	130.8	142.7	150.4	154.6	158.0	159.7
57.5°	69.7	75.6	84.1	88.3	95.1	109.6	119.8	129.1	134.2	138.5	139.3
60°	51.0	56.9	64.6	69.7	76.4	90.9	102.8	111.3	117.2	120.6	122.3
62.5°	36.5	42.5	50.1	55.2	61.2	73.9	85.8	94.3	100.2	104.5	107.0
65°	26.3	32.3	39.9	44.2	49.3	61.2	72.2	80.7	86.6	91.7	93.4
67.5°	19.5	23.8	30.6	34.8	39.9	49.3	58.6	66.3	72.2	76.4	78.1
70°	14.4	17.8	23.8	26.3	29.7	38.2	45.9	52.7	57.8	61.2	62.9
72.5°	10.2	12.7	17.0	19.5	22.1	28.9	34.8	39.9	43.3	46.7	48.4
75°	6.8	8.5	11.9	13.6	15.3	20.4	24.6	28.9	31.4	34.0	34.8
77.5°	4.2	5.9	8.5	9.3	11.0	13.6	17.0	19.5	21.2	22.9	24.6
80°	2.5	3.4	5.1	5.9	6.8	9.3	11.0	12.7	14.4	16.1	17.0
82.5°	1.7	2.5	3.4	3.4	4.2	5.1	6.8	8.5	9.3	10.2	11.0
85°	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1	5.9	6.8
87.5°	0.8	0.8	0.8	0.8	1.7	1.7	2.5	2.5	2.5	3.4	3.4
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°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	598.0	600.6	598.0	599.7	598.9	598.9	598.0	598.9
5°	600.6	604.0	600.6	603.1	601.4	601.4	601.4	602.3
7.5°	603.1	606.5	604.0	606.5	605.7	604.8	604.8	606.5
10°	605.7	608.2	606.5	609.0	608.2	607.4	607.4	609.0
12.5°	605.7	609.0	607.4	609.9	609.0	608.2	608.2	609.0
15°	603.1	607.4	604.8	607.4	606.5	605.7	605.7	607.4
17.5°	595.5	598.9	597.2	598.9	598.9	598.0	598.9	599.7
20°	585.3	587.8	586.1	587.8	587.8	586.1	587.0	587.8
22.5°	570.8	573.4	571.7	573.4	572.5	571.7	571.7	570.8
25°	553.0	556.4	553.8	555.5	553.8	552.1	552.1	553.0
27.5°	530.9	533.4	530.1	531.8	530.1	528.4	528.4	527.5
30°	502.0	502.9	500.3	502.0	500.3	499.5	497.8	497.8
32.5°	467.2	468.0	465.5	465.5	463.8	463.8	460.4	462.9
35°	426.4	427.3	426.4	425.6	423.0	422.2	421.3	421.3
37.5°	383.9	383.9	381.4	380.5	378.9	377.2	378.0	375.5
40°	340.6	339.8	337.2	338.1	337.2	334.7	333.8	333.0
42.5°	299.9	299.9	297.3	298.2	296.5	295.6	293.1	293.9
45°	264.2	264.2	261.6	261.6	260.8	258.2	259.1	257.4
47.5°	231.9	231.9	231.0	231.0	228.5	227.7	227.7	227.7
50°	203.9	203.9	203.9	203.9	203.0	202.2	201.3	202.2
52.5°	180.1	181.8	180.9	180.9	180.1	179.2	178.4	178.4
55°	158.8	159.7	159.7	160.5	159.7	158.8	159.7	158.8
57.5°	140.2	141.9	141.9	141.9	141.9	141.9	141.0	140.2
60°	124.0	124.9	124.9	125.7	125.7	125.7	124.9	124.9
62.5°	107.9	109.6	110.4	110.4	111.3	110.4	110.4	110.4
65°	95.1	96.8	97.7	96.8	97.7	97.7	96.8	96.8
67.5°	79.8	81.5	81.5	81.5	81.5	82.4	81.5	81.5
70°	64.6	66.3	65.4	66.3	66.3	66.3	66.3	66.3
72.5°	49.3	50.1	51.0	51.0	51.8	51.0	51.0	51.0
75°	35.7	37.4	37.4	37.4	37.4	38.2	38.2	38.2
77.5°	25.5	26.3	26.3	27.2	27.2	27.2	27.2	28.0
80°	17.8	17.8	18.7	18.7	19.5	19.5	19.5	19.5
82.5°	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7
85°	6.8	7.6	7.6	7.6	7.6	8.5	8.5	8.5
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4
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)