

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: P252252

Luminaire Tested: **LD6B15D010 EU6B10209030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1158.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

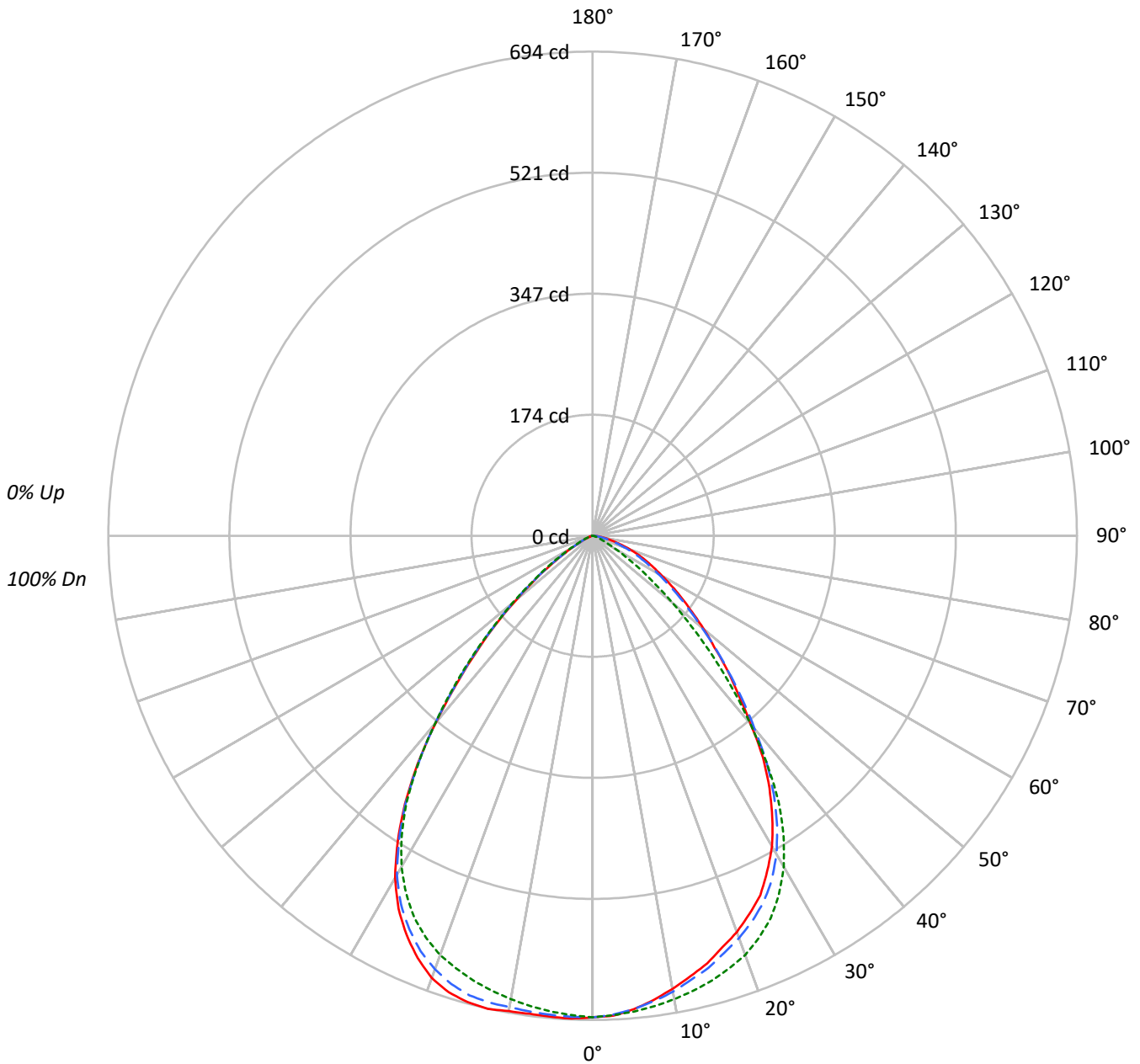
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45029	45029	45029
5°	44605	44821	45312
10°	43683	44677	45836
15°	42849	44591	46732
20°	41962	44392	46822
25°	40924	43508	45430
30°	38744	41260	42639
35°	35187	36979	37313
40°	30029	29893	29748
45°	25225	22383	21691
50°	21071	15143	14382
55°	17733	9293	8440
60°	15005	4893	4241
65°	12998	2578	2053
70°	10816	1583	1106
75°	7991	1059	630
80°	6274	639	301
85°	5015	599	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	5.6
10°-20°	186.3	16.1
20°-30°	275.0	23.8
30°-40°	283.5	24.5
40°-50°	195.8	16.9
50°-60°	96.5	8.3
60°-70°	39.1	3.4
70°-80°	13.9	1.2
80°-90°	2.9	0.2
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°	526.4	45.5
0°-40°	809.8	69.9
0°-60°	1102.1	95.2
0°-90°	1158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	690	690	690	690	690	
5°	681	681	684	689	692	64
15°	634	641	660	682	692	179
25°	568	579	604	622	631	260
35°	442	453	464	467	468	274
45°	273	275	243	239	235	211
55°	156	150	82	77	74	141
65°	84	76	17	13	13	84
75°	32	27	4	2	2	36
85°	7	5	1	0	0	8
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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	688.6	686.1	687.7	684.4	688.6	684.4	685.2	686.1	685.2	686.1	686.9
5°	681.1	678.6	681.1	676.9	681.1	678.6	678.6	679.4	679.4	680.2	681.1
7.5°	671.1	668.6	671.1	666.9	671.9	669.4	669.4	671.1	670.2	671.1	672.7
10°	659.4	656.1	658.6	656.1	661.1	657.7	659.4	659.4	659.4	661.9	663.6
12.5°	646.9	643.6	646.9	642.7	647.7	645.2	646.1	648.6	649.4	651.1	651.9
15°	634.4	630.2	631.9	629.4	634.4	631.9	632.7	636.1	636.1	638.6	641.1
17.5°	618.5	615.2	618.5	615.2	619.4	617.7	619.4	621.9	621.9	624.4	626.9
20°	604.4	601.0	603.5	601.0	606.0	603.5	604.4	607.7	608.5	611.0	613.5
22.5°	586.9	584.4	586.0	583.5	588.5	586.9	587.7	591.0	591.9	593.5	597.7
25°	568.5	563.5	566.0	564.4	569.4	566.9	568.5	571.9	573.5	576.0	579.4
27.5°	541.9	539.4	541.0	541.0	545.2	542.7	543.5	546.9	549.4	551.9	556.0
30°	514.3	510.2	511.8	512.7	516.0	514.3	516.0	519.3	520.2	523.5	526.8
32.5°	479.3	477.7	481.0	479.3	481.0	481.0	481.8	484.3	486.0	487.7	491.8
35°	441.8	438.5	441.8	440.2	444.3	441.8	444.3	446.8	446.8	450.2	452.7
37.5°	401.0	396.8	398.5	398.5	400.1	399.3	399.3	403.5	404.3	406.8	409.3
40°	352.6	351.0	354.3	353.5	354.3	354.3	355.1	357.6	359.3	360.1	361.0
42.5°	309.3	310.1	310.9	310.9	310.9	310.9	310.9	314.3	313.4	315.9	316.8
45°	273.4	270.1	271.8	270.9	273.4	270.9	273.4	275.9	274.3	276.8	275.1
47.5°	236.7	236.7	236.7	235.9	237.6	236.7	238.4	239.2	239.2	239.2	238.4
50°	207.6	205.1	205.9	205.9	206.7	205.9	207.6	208.4	208.4	206.7	203.4
52.5°	179.2	178.4	178.4	180.1	180.1	179.2	179.2	179.2	179.2	176.7	175.1
55°	155.9	154.2	155.1	155.1	155.1	155.1	155.9	155.1	155.1	152.6	150.1
57.5°	135.0	133.4	133.4	133.4	134.2	133.4	133.4	133.4	132.5	130.0	126.7
60°	115.0	114.2	115.0	115.0	115.9	115.0	115.0	115.0	113.4	110.9	107.5
62.5°	98.4	98.4	98.4	99.2	99.2	98.4	98.4	97.5	96.7	93.4	90.0
65°	84.2	83.4	84.2	84.2	85.0	85.0	84.2	83.4	82.5	79.2	75.9
67.5°	70.0	69.2	70.0	70.0	70.9	70.0	70.0	70.0	67.5	65.9	62.5
70°	56.7	55.9	55.9	55.9	56.7	55.0	55.9	55.9	54.2	51.7	48.4
72.5°	43.3	43.3	43.3	43.3	43.3	43.3	42.5	42.5	40.8	38.3	36.7
75°	31.7	31.7	32.5	32.5	31.7	31.7	31.7	30.8	30.0	28.3	26.7
77.5°	23.3	23.3	23.3	23.3	22.5	22.5	22.5	21.7	20.8	20.0	18.3
80°	16.7	16.7	16.7	15.8	16.7	15.8	15.8	15.8	14.2	13.3	12.5
82.5°	11.7	10.8	10.8	10.8	10.8	10.8	10.8	10.0	10.0	9.2	8.3
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.8	5.0	5.0
87.5°	3.3	4.2	4.2	4.2	4.2	4.2	4.2	3.3	3.3	3.3	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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	686.9	686.9	688.6	686.1	690.2	687.7	686.9	691.1	688.6	687.7	689.4
5°	681.1	681.9	682.7	681.1	685.2	682.7	682.7	686.9	685.2	684.4	686.9
7.5°	673.6	674.4	676.1	675.2	678.6	676.9	677.7	681.9	680.2	680.2	682.7
10°	664.4	666.1	667.7	667.7	671.9	670.2	670.2	675.2	673.6	674.4	677.7
12.5°	653.6	656.1	658.6	659.4	663.6	661.1	661.9	667.7	666.9	667.7	671.1
15°	641.9	645.2	647.7	647.7	652.7	650.2	652.7	658.6	656.9	660.2	664.4
17.5°	628.6	631.9	635.2	636.1	641.1	639.4	642.7	648.6	648.6	650.2	655.2
20°	616.0	620.2	621.9	624.4	629.4	628.6	630.2	636.9	636.9	639.4	644.4
22.5°	599.4	603.5	606.9	609.4	613.5	613.5	616.0	621.9	621.9	623.5	628.6
25°	581.0	586.0	588.5	591.0	595.2	594.4	596.9	601.9	602.7	604.4	609.4
27.5°	557.7	561.9	565.2	566.9	572.7	569.4	571.9	577.7	576.9	578.5	582.7
30°	528.5	532.7	536.0	536.0	541.0	541.0	543.5	546.0	546.0	547.7	551.0
32.5°	494.3	499.3	499.3	501.8	505.2	501.8	505.2	508.5	506.8	509.3	511.8
35°	455.2	457.7	458.5	458.5	461.0	460.2	459.3	461.8	460.2	464.3	466.8
37.5°	407.6	411.0	409.3	411.0	410.1	407.6	407.6	411.8	408.5	409.3	411.8
40°	361.8	361.8	361.0	356.8	357.6	355.1	354.3	355.1	351.8	351.0	354.3
42.5°	314.3	313.4	310.9	305.1	305.9	301.8	298.4	298.4	296.8	295.9	296.8
45°	271.8	269.3	265.1	258.4	256.8	253.4	246.8	245.1	242.6	242.6	243.4
47.5°	232.6	229.2	222.6	215.1	210.9	206.7	200.1	197.6	193.4	191.7	193.4
50°	200.1	194.2	185.9	175.1	170.9	165.9	159.2	155.1	150.9	149.2	148.4
52.5°	170.1	161.7	153.4	140.0	136.7	131.7	122.5	118.4	114.2	110.9	110.9
55°	144.2	136.7	125.0	112.5	107.5	102.5	93.4	87.5	83.4	81.7	80.0
57.5°	120.9	112.5	101.7	88.4	83.4	78.4	69.2	63.4	59.2	56.7	55.0
60°	101.7	92.5	81.7	70.0	64.2	59.2	50.0	44.2	40.0	37.5	35.8
62.5°	83.4	75.9	65.0	54.2	49.2	44.2	36.7	30.8	26.7	25.0	22.5
65°	70.0	62.5	52.5	43.3	39.2	34.2	27.5	22.5	19.2	16.7	15.0
67.5°	56.7	50.9	42.5	34.2	30.0	26.7	20.8	16.7	13.3	11.7	10.8
70°	45.0	39.2	32.5	25.8	23.3	20.0	15.8	11.7	10.0	8.3	7.5
72.5°	33.3	29.2	24.2	19.2	16.7	15.0	10.8	9.2	6.7	5.8	5.0
75°	24.2	20.8	17.5	13.3	11.7	10.8	8.3	5.8	5.0	4.2	3.3
77.5°	16.7	15.0	11.7	9.2	8.3	7.5	5.8	4.2	3.3	2.5	2.5
80°	10.8	9.2	7.5	5.8	5.8	5.0	3.3	2.5	2.5	1.7	1.7
82.5°	6.7	5.8	5.0	4.2	3.3	3.3	2.5	1.7	1.7	0.8	0.8
85°	4.2	3.3	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8
87.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	689.4	689.4	691.1	688.6	690.2	690.2	691.9	688.6	690.2	691.1	692.7
5°	686.1	686.9	688.6	687.7	688.6	688.6	690.2	686.1	689.4	689.4	691.9
7.5°	682.7	682.7	684.4	683.6	685.2	686.1	687.7	684.4	687.7	687.7	690.2
10°	678.6	678.6	681.1	680.2	682.7	683.6	686.1	682.7	686.1	686.9	689.4
12.5°	672.7	673.6	676.1	676.1	678.6	680.2	682.7	681.1	685.2	686.1	689.4
15°	666.1	667.7	671.1	670.2	672.7	675.2	678.6	676.1	681.9	683.6	686.9
17.5°	657.7	659.4	661.9	661.9	664.4	666.1	670.2	668.6	673.6	674.4	678.6
20°	645.2	647.7	651.1	650.2	652.7	654.4	657.7	656.1	661.1	662.7	666.9
22.5°	630.2	631.9	634.4	634.4	636.9	638.6	641.9	639.4	644.4	645.2	648.6
25°	610.2	611.9	613.5	614.4	616.9	617.7	619.4	617.7	621.9	622.7	626.9
27.5°	584.4	585.2	587.7	587.7	589.4	590.2	592.7	589.4	595.2	595.2	597.7
30°	553.5	552.7	556.0	554.4	556.0	556.0	558.5	556.9	561.0	559.4	561.9
32.5°	512.7	514.3	514.3	512.7	516.0	515.2	515.2	513.5	516.0	516.8	518.5
35°	465.2	467.7	467.7	468.5	469.3	466.8	467.7	462.7	466.8	467.7	468.5
37.5°	413.5	411.0	412.6	410.1	414.3	409.3	409.3	406.0	409.3	409.3	410.1
40°	354.3	353.5	355.1	353.5	352.6	351.8	350.1	347.6	351.0	349.3	351.8
42.5°	298.4	297.6	297.6	295.9	295.1	295.1	293.4	291.8	290.9	290.9	295.1
45°	240.9	242.6	240.9	240.1	241.8	240.1	240.9	237.6	239.2	237.6	239.2
47.5°	192.6	193.4	191.7	190.1	192.6	190.1	190.1	187.6	190.9	190.9	189.2
50°	149.2	148.4	146.7	148.4	147.6	147.6	147.6	145.1	146.7	144.2	145.9
52.5°	110.0	109.2	109.2	108.4	109.2	108.4	108.4	107.5	107.5	106.7	107.5
55°	80.0	79.2	77.5	77.5	77.5	78.4	77.5	76.7	76.7	75.9	76.7
57.5°	54.2	52.5	52.5	52.5	52.5	51.7	51.7	50.9	51.7	50.9	51.7
60°	35.0	35.0	33.3	33.3	33.3	33.3	33.3	32.5	33.3	33.3	33.3
62.5°	21.7	21.7	20.8	20.0	20.8	20.0	20.0	20.0	20.8	20.0	20.8
65°	14.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
67.5°	10.0	9.2	9.2	9.2	9.2	9.2	9.2	8.3	9.2	9.2	9.2
70°	6.7	6.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	690.2	691.1	689.4	690.2	688.6	690.2	691.1	692.7
5°	688.6	689.4	687.7	689.4	687.7	689.4	690.2	691.9
7.5°	686.9	688.6	686.9	688.6	686.9	688.6	689.4	691.1
10°	686.9	689.4	687.7	690.2	687.7	689.4	691.1	691.9
12.5°	686.9	689.4	688.6	690.2	689.4	691.1	692.7	694.4
15°	685.2	687.7	686.1	688.6	687.7	688.6	691.9	691.9
17.5°	676.1	678.6	678.6	680.2	680.2	682.7	684.4	686.1
20°	664.4	666.9	666.1	668.6	668.6	671.1	672.7	674.4
22.5°	646.9	650.2	649.4	651.9	651.1	652.7	656.1	655.2
25°	624.4	628.6	627.7	629.4	628.6	628.6	630.2	631.1
27.5°	596.9	599.4	598.5	600.2	598.5	600.2	601.9	602.7
30°	561.0	562.7	561.9	562.7	561.9	563.5	564.4	566.0
32.5°	517.7	520.2	517.7	519.3	518.5	518.5	521.8	520.2
35°	466.0	466.8	467.7	467.7	466.0	466.8	468.5	468.5
37.5°	408.5	412.6	407.6	410.1	409.3	409.3	409.3	411.8
40°	348.5	349.3	347.6	347.6	347.6	346.8	350.1	349.3
42.5°	291.8	292.6	291.8	289.3	290.1	290.1	292.6	289.3
45°	236.7	238.4	237.6	237.6	235.9	235.9	236.7	235.1
47.5°	187.6	189.2	186.7	187.6	185.9	187.6	186.7	188.4
50°	142.5	144.2	143.4	144.2	144.2	142.5	145.1	141.7
52.5°	106.7	107.5	106.7	105.9	105.0	105.0	106.7	105.9
55°	75.9	75.0	75.0	75.0	75.9	75.9	75.0	74.2
57.5°	50.9	50.9	50.0	50.0	50.9	49.2	50.0	49.2
60°	32.5	32.5	32.5	32.5	31.7	32.5	32.5	32.5
62.5°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
65°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
67.5°	8.3	9.2	9.2	9.2	8.3	8.3	8.3	8.3
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)