

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: P252255

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252255
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 EU6B10209050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1181.1 lumens
Efficiency: N/A
Efficacy: 82.1 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

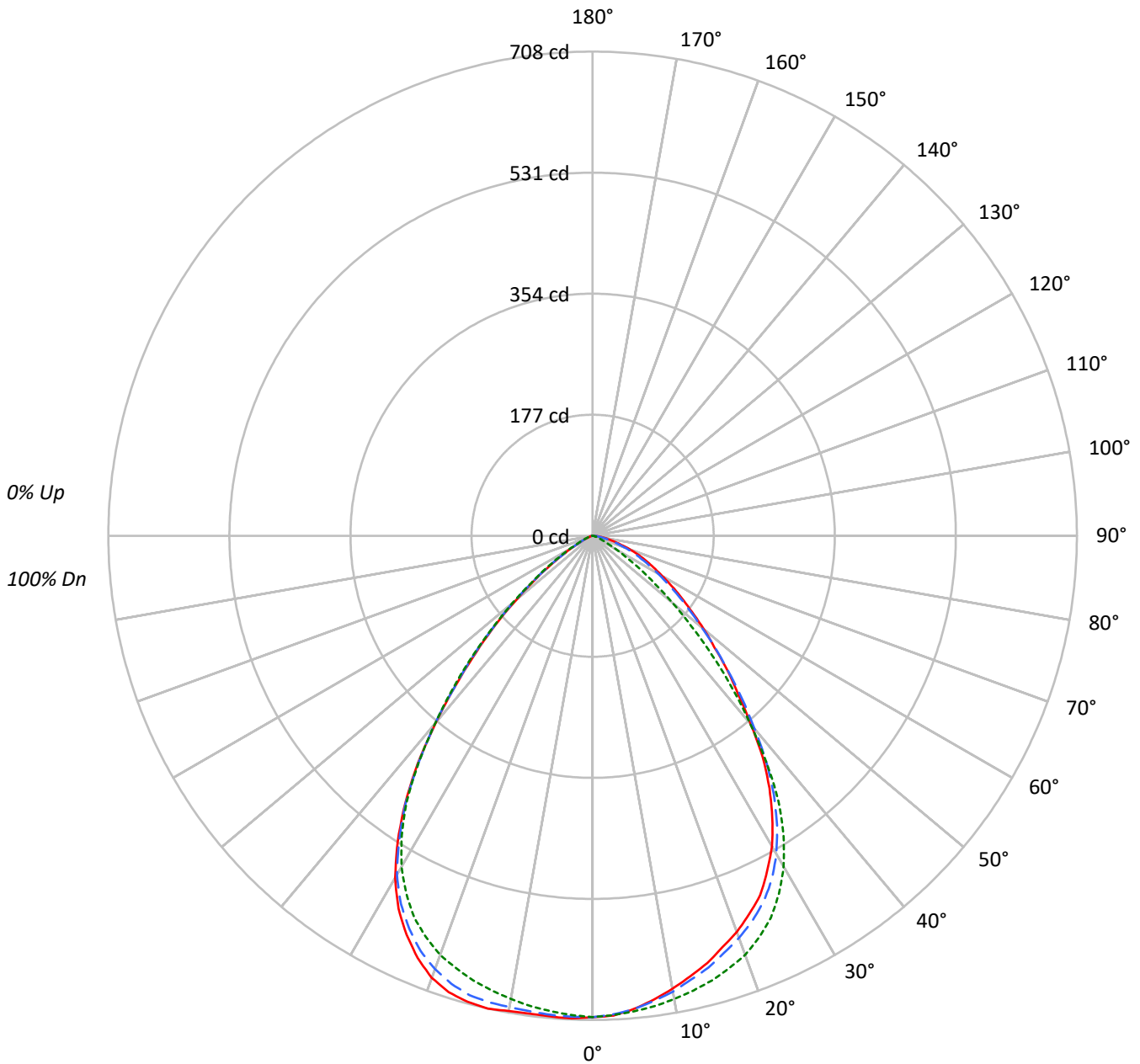
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	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	69	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°	45923	45923	45923
5°	45489	45712	46210
10°	44551	45565	46744
15°	43700	45476	47658
20°	42795	45274	47752
25°	41737	44372	46330
30°	39520	42081	43490
35°	35888	37719	38054
40°	30626	30481	30336
45°	25732	22826	22125
50°	21487	15448	14666
55°	18085	9475	8610
60°	15305	4997	4332
65°	13261	2624	2099
70°	11025	1621	1145
75°	8142	1084	655
80°	6387	639	338
85°	5090	674	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	5.6
10°-20°	190.0	16.1
20°-30°	280.5	23.8
30°-40°	289.1	24.5
40°-50°	199.7	16.9
50°-60°	98.4	8.3
60°-70°	39.9	3.4
70°-80°	14.2	1.2
80°-90°	3.0	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°	536.8	45.5
0°-40°	825.9	69.9
0°-60°	1124.0	95.2
0°-90°	1181.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1181.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	704	704	704	704	704	
5°	695	695	698	703	706	66
15°	647	654	673	695	706	182
25°	580	591	616	634	644	265
35°	451	462	474	476	478	279
45°	279	281	247	244	240	216
55°	159	153	83	78	76	144
65°	86	77	17	14	14	85
75°	32	27	4	3	3	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°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	702.2	699.7	701.4	698.0	702.2	698.0	698.8	699.7	698.8	699.7	700.5
5°	694.6	692.0	694.6	690.3	694.6	692.0	692.0	692.9	692.9	693.7	694.6
7.5°	684.4	681.8	684.4	680.1	685.2	682.7	682.7	684.4	683.5	684.4	686.1
10°	672.5	669.1	671.6	669.1	674.2	670.8	672.5	672.5	672.5	675.0	676.7
12.5°	659.7	656.3	659.7	655.5	660.6	658.0	658.9	661.4	662.3	664.0	664.8
15°	647.0	642.7	644.4	641.9	647.0	644.4	645.3	648.7	648.7	651.2	653.8
17.5°	630.8	627.4	630.8	627.4	631.7	630.0	631.7	634.2	634.2	636.8	639.3
20°	616.4	613.0	615.5	613.0	618.1	615.5	616.4	619.8	620.6	623.2	625.7
22.5°	598.5	596.0	597.7	595.1	600.2	598.5	599.4	602.8	603.6	605.3	609.6
25°	579.8	574.7	577.3	575.6	580.7	578.1	579.8	583.2	584.9	587.5	590.9
27.5°	552.6	550.1	551.8	551.8	556.0	553.5	554.3	557.7	560.3	562.8	567.1
30°	524.6	520.3	522.0	522.9	526.3	524.6	526.3	529.7	530.5	533.9	537.3
32.5°	488.9	487.2	490.6	488.9	490.6	490.6	491.4	494.0	495.7	497.4	501.6
35°	450.6	447.2	450.6	448.9	453.1	450.6	453.1	455.7	455.7	459.1	461.6
37.5°	408.9	404.7	406.4	406.4	408.1	407.2	407.2	411.5	412.3	414.9	417.4
40°	359.6	357.9	361.3	360.5	361.3	361.3	362.2	364.7	366.4	367.3	368.1
42.5°	315.4	316.3	317.1	317.1	317.1	317.1	317.1	320.5	319.7	322.2	323.1
45°	278.9	275.5	277.2	276.3	278.9	276.3	278.9	281.4	279.7	282.3	280.6
47.5°	241.5	241.5	241.5	240.6	242.3	241.5	243.2	244.0	244.0	244.0	243.2
50°	211.7	209.1	210.0	210.0	210.8	210.0	211.7	212.5	212.5	210.8	207.4
52.5°	182.8	181.9	181.9	183.6	183.6	182.8	182.8	182.8	182.8	180.2	178.5
55°	159.0	157.3	158.1	158.1	158.1	158.1	159.0	158.1	158.1	155.6	153.0
57.5°	137.7	136.0	136.0	136.0	136.9	136.0	136.0	136.0	135.2	132.6	129.2
60°	117.3	116.5	117.3	117.3	118.2	117.3	117.3	117.3	115.6	113.1	109.7
62.5°	100.3	100.3	100.3	101.2	101.2	100.3	100.3	99.5	98.6	95.2	91.8
65°	85.9	85.0	85.9	85.9	86.7	86.7	85.9	85.0	84.2	80.8	77.4
67.5°	71.4	70.6	71.4	71.4	72.3	71.4	71.4	71.4	68.9	67.2	63.8
70°	57.8	57.0	57.0	57.0	57.8	56.1	57.0	57.0	55.3	52.7	49.3
72.5°	44.2	44.2	44.2	44.2	44.2	44.2	43.4	43.4	41.7	39.1	37.4
75°	32.3	32.3	33.2	33.2	32.3	32.3	32.3	31.5	30.6	28.9	27.2
77.5°	23.8	23.8	23.8	23.8	23.0	23.0	23.0	22.1	21.3	20.4	18.7
80°	17.0	17.0	17.0	16.2	17.0	16.2	16.2	16.2	14.5	13.6	12.8
82.5°	11.9	11.1	11.1	11.1	11.1	11.1	11.1	10.2	10.2	9.4	8.5
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.0	5.1	5.1
87.5°	3.4	4.3	4.3	4.3	4.3	4.3	4.3	3.4	3.4	3.4	2.6
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°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	700.5	700.5	702.2	699.7	703.9	701.4	700.5	704.8	702.2	701.4	703.1
5°	694.6	695.4	696.3	694.6	698.8	696.3	696.3	700.5	698.8	698.0	700.5
7.5°	686.9	687.8	689.5	688.6	692.0	690.3	691.2	695.4	693.7	693.7	696.3
10°	677.6	679.3	681.0	681.0	685.2	683.5	683.5	688.6	686.9	687.8	691.2
12.5°	666.5	669.1	671.6	672.5	676.7	674.2	675.0	681.0	680.1	681.0	684.4
15°	654.6	658.0	660.6	660.6	665.7	663.1	665.7	671.6	669.9	673.3	677.6
17.5°	641.0	644.4	647.8	648.7	653.8	652.1	655.5	661.4	661.4	663.1	668.2
20°	628.3	632.5	634.2	636.8	641.9	641.0	642.7	649.5	649.5	652.1	657.2
22.5°	611.3	615.5	618.9	621.5	625.7	625.7	628.3	634.2	634.2	635.9	641.0
25°	592.6	597.7	600.2	602.8	607.0	606.2	608.7	613.8	614.7	616.4	621.5
27.5°	568.8	573.0	576.4	578.1	584.1	580.7	583.2	589.2	588.3	590.0	594.3
30°	539.0	543.3	546.7	546.7	551.8	551.8	554.3	556.9	556.9	558.6	562.0
32.5°	504.2	509.3	509.3	511.8	515.2	511.8	515.2	518.6	516.9	519.5	522.0
35°	464.2	466.7	467.6	467.6	470.1	469.3	468.4	471.0	469.3	473.6	476.1
37.5°	415.7	419.1	417.4	419.1	418.3	415.7	415.7	420.0	416.6	417.4	420.0
40°	369.0	369.0	368.1	363.9	364.7	362.2	361.3	362.2	358.8	357.9	361.3
42.5°	320.5	319.7	317.1	311.2	312.0	307.8	304.4	304.4	302.7	301.8	302.7
45°	277.2	274.6	270.4	263.6	261.9	258.5	251.7	250.0	247.4	247.4	248.3
47.5°	237.2	233.8	227.0	219.3	215.1	210.8	204.0	201.5	197.2	195.5	197.2
50°	204.0	198.1	189.6	178.5	174.3	169.2	162.4	158.1	153.9	152.2	151.3
52.5°	173.4	164.9	156.4	142.8	139.4	134.3	125.0	120.7	116.5	113.1	113.1
55°	147.1	139.4	127.5	114.8	109.7	104.6	95.2	89.3	85.0	83.3	81.6
57.5°	123.3	114.8	103.7	90.1	85.0	79.9	70.6	64.6	60.4	57.8	56.1
60°	103.7	94.4	83.3	71.4	65.5	60.4	51.0	45.1	40.8	38.3	36.6
62.5°	85.0	77.4	66.3	55.3	50.2	45.1	37.4	31.5	27.2	25.5	23.0
65°	71.4	63.8	53.6	44.2	40.0	34.9	28.1	23.0	19.6	17.0	15.3
67.5°	57.8	51.9	43.4	34.9	30.6	27.2	21.3	17.0	13.6	11.9	11.1
70°	45.9	40.0	33.2	26.4	23.8	20.4	16.2	11.9	10.2	8.5	7.7
72.5°	34.0	29.8	24.7	19.6	17.0	15.3	11.1	9.4	6.8	6.0	5.1
75°	24.7	21.3	17.9	13.6	11.9	11.1	8.5	6.0	5.1	4.3	3.4
77.5°	17.0	15.3	11.9	9.4	8.5	7.7	6.0	4.3	3.4	2.6	2.6
80°	11.1	9.4	7.7	6.0	6.0	5.1	3.4	2.6	2.6	1.7	1.7
82.5°	6.8	6.0	5.1	4.3	3.4	3.4	2.6	1.7	1.7	0.9	0.9
85°	4.3	3.4	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9	0.9
87.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	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°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	703.1	703.1	704.8	702.2	703.9	703.9	705.6	702.2	703.9	704.8	706.5
5°	699.7	700.5	702.2	701.4	702.2	702.2	703.9	699.7	703.1	703.1	705.6
7.5°	696.3	696.3	698.0	697.1	698.8	699.7	701.4	698.0	701.4	701.4	703.9
10°	692.0	692.0	694.6	693.7	696.3	697.1	699.7	696.3	699.7	700.5	703.1
12.5°	686.1	686.9	689.5	689.5	692.0	693.7	696.3	694.6	698.8	699.7	703.1
15°	679.3	681.0	684.4	683.5	686.1	688.6	692.0	689.5	695.4	697.1	700.5
17.5°	670.8	672.5	675.0	675.0	677.6	679.3	683.5	681.8	686.9	687.8	692.0
20°	658.0	660.6	664.0	663.1	665.7	667.4	670.8	669.1	674.2	675.9	680.1
22.5°	642.7	644.4	647.0	647.0	649.5	651.2	654.6	652.1	657.2	658.0	661.4
25°	622.3	624.0	625.7	626.6	629.1	630.0	631.7	630.0	634.2	635.1	639.3
27.5°	596.0	596.8	599.4	599.4	601.1	601.9	604.5	601.1	607.0	607.0	609.6
30°	564.5	563.7	567.1	565.4	567.1	567.1	569.6	567.9	572.2	570.5	573.0
32.5°	522.9	524.6	524.6	522.9	526.3	525.4	525.4	523.7	526.3	527.1	528.8
35°	474.4	477.0	477.0	477.8	478.7	476.1	477.0	471.8	476.1	477.0	477.8
37.5°	421.7	419.1	420.8	418.3	422.5	417.4	417.4	414.0	417.4	417.4	418.3
40°	361.3	360.5	362.2	360.5	359.6	358.8	357.1	354.5	357.9	356.2	358.8
42.5°	304.4	303.5	303.5	301.8	301.0	301.0	299.3	297.6	296.7	296.7	301.0
45°	245.7	247.4	245.7	244.9	246.6	244.9	245.7	242.3	244.0	242.3	244.0
47.5°	196.4	197.2	195.5	193.8	196.4	193.8	193.8	191.3	194.7	194.7	193.0
50°	152.2	151.3	149.6	151.3	150.5	150.5	150.5	147.9	149.6	147.1	148.8
52.5°	112.2	111.4	111.4	110.5	111.4	110.5	110.5	109.7	109.7	108.8	109.7
55°	81.6	80.8	79.1	79.1	79.1	79.9	79.1	78.2	78.2	77.4	78.2
57.5°	55.3	53.6	53.6	53.6	53.6	52.7	52.7	51.9	52.7	51.9	52.7
60°	35.7	35.7	34.0	34.0	34.0	34.0	34.0	33.2	34.0	34.0	34.0
62.5°	22.1	22.1	21.3	20.4	21.3	20.4	20.4	20.4	21.3	20.4	21.3
65°	14.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
67.5°	10.2	9.4	9.4	9.4	9.4	9.4	9.4	8.5	9.4	9.4	9.4
70°	6.8	6.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	3.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	703.9	703.9	703.9	703.9	703.9	703.9	703.9	703.9
2.5°	703.9	704.8	703.1	703.9	702.2	703.9	704.8	706.5
5°	702.2	703.1	701.4	703.1	701.4	703.1	703.9	705.6
7.5°	700.5	702.2	700.5	702.2	700.5	702.2	703.1	704.8
10°	700.5	703.1	701.4	703.9	701.4	703.1	704.8	705.6
12.5°	700.5	703.1	702.2	703.9	703.1	704.8	706.5	708.2
15°	698.8	701.4	699.7	702.2	701.4	702.2	705.6	705.6
17.5°	689.5	692.0	692.0	693.7	693.7	696.3	698.0	699.7
20°	677.6	680.1	679.3	681.8	681.8	684.4	686.1	687.8
22.5°	659.7	663.1	662.3	664.8	664.0	665.7	669.1	668.2
25°	636.8	641.0	640.2	641.9	641.0	641.0	642.7	643.6
27.5°	608.7	611.3	610.4	612.1	610.4	612.1	613.8	614.7
30°	572.2	573.9	573.0	573.9	573.0	574.7	575.6	577.3
32.5°	528.0	530.5	528.0	529.7	528.8	528.8	532.2	530.5
35°	475.3	476.1	477.0	477.0	475.3	476.1	477.8	477.8
37.5°	416.6	420.8	415.7	418.3	417.4	417.4	417.4	420.0
40°	355.4	356.2	354.5	354.5	354.5	353.7	357.1	356.2
42.5°	297.6	298.4	297.6	295.0	295.9	295.9	298.4	295.0
45°	241.5	243.2	242.3	242.3	240.6	240.6	241.5	239.8
47.5°	191.3	193.0	190.4	191.3	189.6	191.3	190.4	192.1
50°	145.4	147.1	146.2	147.1	147.1	145.4	147.9	144.5
52.5°	108.8	109.7	108.8	108.0	107.1	107.1	108.8	108.0
55°	77.4	76.5	76.5	76.5	77.4	77.4	76.5	75.7
57.5°	51.9	51.9	51.0	51.0	51.9	50.2	51.0	50.2
60°	33.2	33.2	33.2	33.2	32.3	33.2	33.2	33.2
62.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
65°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
67.5°	8.5	9.4	9.4	9.4	8.5	8.5	8.5	8.5
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)