

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: P252136

Luminaire Tested: **LD6B10D010 EU6B10209035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1173.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

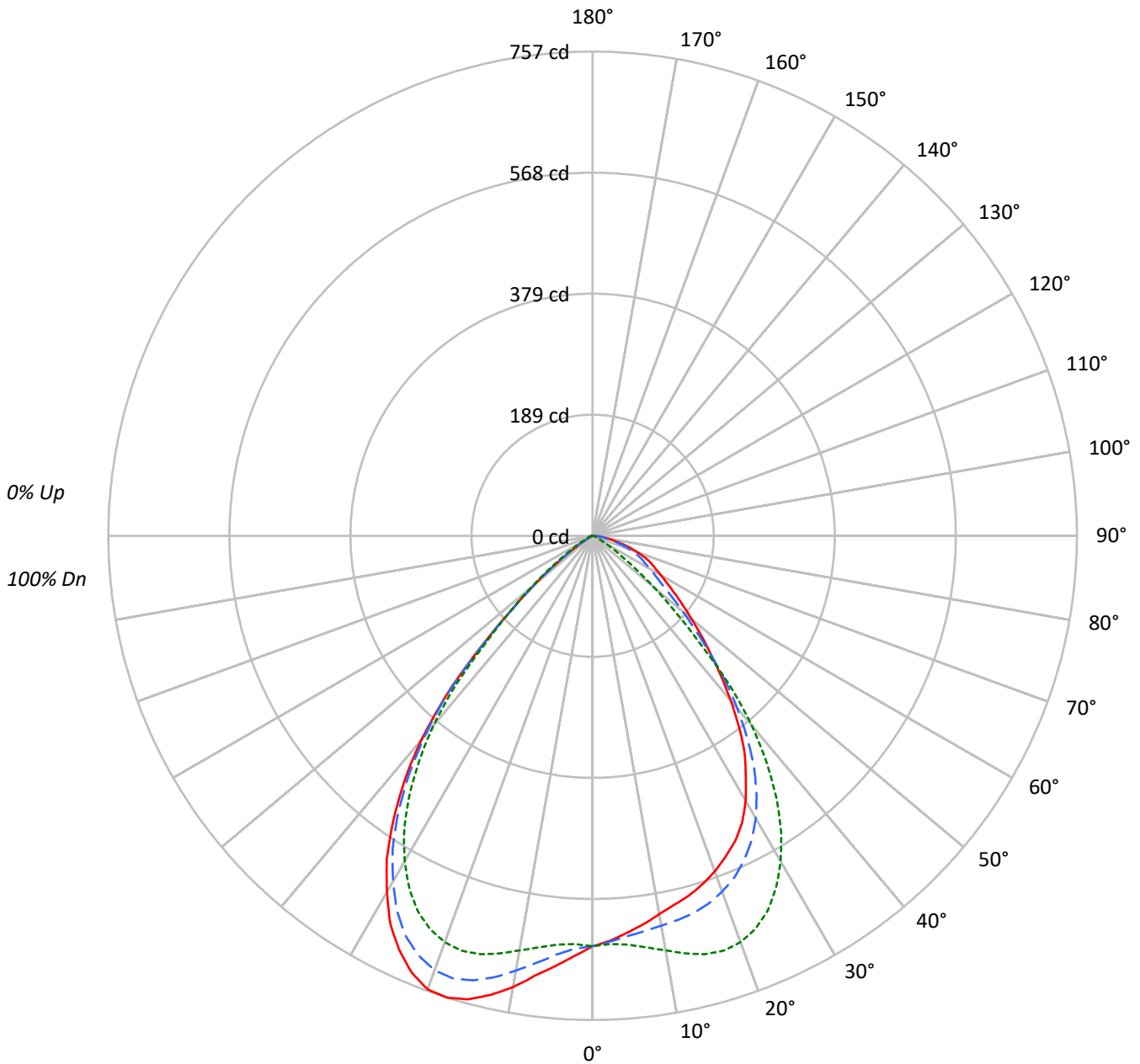
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41865	41865	41865
5°	40781	42025	44238
10°	39788	43610	47473
15°	39323	45746	50677
20°	38761	46940	52390
25°	37936	46589	51448
30°	36047	44273	48439
35°	32981	39918	43239
40°	28530	32968	35480
45°	24053	21627	23204
50°	20421	12515	11774
55°	17721	6006	4538
60°	16010	2805	1122
65°	15530	1605	386
70°	13925	1278	343
75°	11444	933	151
80°	8529	451	0
85°	7336	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	5.3
10°-20°	188.9	16.1
20°-30°	288.6	24.6
30°-40°	301.9	25.7
40°-50°	195.8	16.7
50°-60°	77.8	6.6
60°-70°	36.9	3.1
70°-80°	17.5	1.5
80°-90°	3.6	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°	539.5	46.0
0°-40°	841.4	71.7
0°-60°	1115.0	95.1
0°-90°	1173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	642	642	642	642	642	
5°	623	628	642	658	676	59
15°	582	610	677	720	750	164
25°	527	560	647	691	715	241
35°	414	439	501	531	543	256
45°	261	258	234	248	252	203
55°	156	132	53	41	40	141
65°	101	83	10	2	2	98
75°	45	37	4	1	1	49
85°	10	6	0	0	0	11
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°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	633.7	635.0	628.2	626.4	631.3	633.1	633.7	631.9	632.5	635.0	635.0
5°	622.7	623.9	617.8	616.0	620.9	622.1	623.9	623.3	625.2	628.8	628.2
7.5°	612.3	614.1	607.4	604.9	611.0	614.1	615.3	615.3	617.8	622.7	623.3
10°	600.6	603.1	596.9	595.7	602.5	605.5	606.1	607.4	611.0	617.8	619.0
12.5°	590.8	593.3	589.0	587.1	594.5	597.6	598.8	601.2	605.5	614.1	615.3
15°	582.2	584.1	579.1	577.9	585.3	589.0	589.6	593.3	598.8	608.6	610.4
17.5°	571.2	572.4	568.7	567.5	574.9	578.5	579.1	583.4	590.2	600.0	603.1
20°	558.3	559.5	555.8	554.6	562.0	566.3	566.9	570.6	578.5	589.0	592.0
22.5°	542.9	545.4	541.1	539.9	547.2	550.9	552.8	555.8	563.8	574.2	578.5
25°	527.0	527.0	523.9	523.3	530.1	534.4	533.7	538.0	546.0	556.4	560.1
27.5°	506.1	505.5	502.5	501.8	509.2	512.9	511.7	516.0	523.3	533.7	537.4
30°	478.5	479.8	475.5	474.2	480.4	486.5	485.9	490.2	497.6	507.4	509.8
32.5°	445.4	446.6	446.0	444.2	449.7	452.8	454.6	457.7	463.8	474.2	476.7
35°	414.1	412.3	409.8	409.8	415.3	420.2	418.4	422.1	428.2	438.7	439.3
37.5°	375.5	374.8	373.6	372.4	378.5	379.8	380.4	382.8	388.3	396.9	395.7
40°	335.0	335.6	335.0	332.5	336.2	341.1	340.5	341.7	346.6	352.8	350.9
42.5°	296.9	296.9	296.9	294.5	298.8	301.2	302.5	301.8	303.1	308.6	306.1
45°	260.7	261.4	260.7	260.1	260.7	262.0	260.7	260.1	260.1	262.0	258.3
47.5°	229.4	229.4	227.6	225.8	227.6	228.2	226.4	224.5	223.9	223.3	217.2
50°	201.2	200.6	200.0	196.9	198.8	199.4	196.9	195.7	193.3	190.2	182.8
52.5°	176.7	176.1	175.5	172.4	173.6	174.2	171.8	169.3	166.3	163.8	154.6
55°	155.8	155.2	155.2	153.4	152.1	153.4	150.9	149.1	144.8	141.7	132.5
57.5°	138.0	138.0	136.8	135.0	135.6	135.6	133.1	130.7	127.0	123.3	116.0
60°	122.7	122.7	122.7	120.9	120.9	120.9	119.6	117.2	114.1	110.4	103.1
62.5°	110.4	110.4	109.8	108.0	108.6	108.6	107.4	104.9	101.8	99.4	92.0
65°	100.6	100.6	100.6	98.8	98.8	99.4	98.2	95.7	93.3	90.2	83.4
67.5°	88.3	87.7	87.7	86.5	87.1	87.7	86.5	84.7	81.6	79.8	73.6
70°	73.0	73.6	74.2	72.4	73.0	73.0	72.4	70.6	68.7	66.9	61.4
72.5°	59.5	59.5	58.9	58.3	58.3	58.9	57.7	55.8	54.6	53.4	49.1
75°	45.4	44.8	45.4	44.2	44.2	44.2	42.9	42.3	41.7	39.9	36.8
77.5°	33.1	32.5	32.5	31.3	31.9	31.9	31.3	30.1	28.8	28.2	25.8
80°	22.7	22.7	22.7	22.1	22.1	21.5	21.5	20.9	19.6	19.0	17.8
82.5°	15.3	15.3	15.3	14.7	14.7	14.7	14.1	13.5	12.9	12.3	11.0
85°	9.8	9.8	9.8	9.2	9.2	9.2	8.6	8.6	8.0	7.4	6.1
87.5°	5.5	5.5	5.5	4.9	4.9	4.9	4.9	4.9	4.3	3.7	3.1
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°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	639.3	630.7	636.2	636.2	634.4	639.3	642.3	644.8	644.2	638.7	638.0
5°	634.4	627.0	633.1	633.7	631.9	638.7	643.0	646.0	646.6	641.7	642.3
7.5°	630.7	624.5	632.5	635.0	634.4	640.5	645.4	650.3	652.8	649.1	649.7
10°	628.8	623.9	632.5	636.2	636.8	643.6	650.9	657.7	660.7	658.3	660.1
12.5°	626.4	623.3	633.1	638.7	641.1	647.9	657.1	665.0	669.9	668.7	672.4
15°	623.9	621.5	633.1	641.1	644.2	650.3	660.7	672.4	677.9	677.3	682.2
17.5°	617.8	617.2	629.5	638.0	642.3	649.7	659.5	673.6	679.1	680.4	686.5
20°	608.0	608.0	621.5	630.7	635.6	642.3	654.6	668.1	674.9	676.1	682.8
22.5°	594.5	595.7	608.6	617.8	625.2	630.1	643.0	657.1	663.2	665.0	672.4
25°	576.7	577.9	590.2	599.4	607.4	612.9	625.2	638.0	645.4	647.2	652.8
27.5°	553.4	555.8	567.5	576.7	583.4	587.1	600.0	613.5	619.0	620.9	626.4
30°	526.4	527.0	538.7	546.6	553.4	556.4	567.5	581.6	585.9	587.7	595.7
32.5°	493.3	492.6	503.7	511.0	516.6	520.3	531.9	541.1	545.4	548.5	552.8
35°	453.4	452.8	460.7	469.3	473.6	474.9	486.5	496.3	498.8	501.2	506.8
37.5°	408.6	408.6	415.3	419.6	424.5	426.4	431.9	442.9	447.2	446.6	450.9
40°	361.4	358.9	363.8	368.1	369.3	369.9	375.5	384.1	387.1	387.1	390.2
42.5°	311.7	308.0	308.6	311.0	312.3	308.0	311.7	317.2	315.3	317.8	318.4
45°	258.9	253.4	250.9	245.4	246.6	242.3	239.9	241.1	240.5	234.4	235.6
47.5°	216.0	206.1	201.8	193.9	192.0	187.1	184.1	178.5	173.6	173.6	170.6
50°	179.8	169.9	161.4	152.1	149.1	144.8	138.0	130.7	127.0	123.3	120.2
52.5°	150.9	140.5	130.1	120.2	116.0	110.4	101.2	93.9	87.1	83.4	79.8
55°	127.6	116.0	104.9	94.5	89.0	83.4	74.2	65.6	57.7	52.8	49.7
57.5°	109.8	98.8	87.1	76.1	71.2	65.0	55.2	46.0	38.7	33.1	30.1
60°	96.9	85.9	75.5	63.8	58.9	52.8	42.3	33.7	26.4	21.5	17.8
62.5°	85.9	76.1	65.0	54.6	49.7	43.6	33.7	25.2	18.4	13.5	10.4
65°	77.9	68.1	58.9	48.5	44.2	38.0	28.8	20.9	14.7	10.4	7.4
67.5°	68.7	60.1	50.9	42.3	38.0	33.1	24.5	17.8	12.3	8.6	6.1
70°	57.7	50.9	42.9	35.0	31.9	27.6	20.2	14.7	9.8	6.7	4.9
72.5°	46.0	40.5	34.4	28.2	25.8	21.5	16.6	11.7	7.4	4.9	3.7
75°	35.0	30.7	25.8	21.5	19.0	16.6	12.3	8.6	5.5	3.7	2.5
77.5°	23.9	22.1	18.4	14.7	13.5	11.7	8.0	5.5	3.7	2.5	1.2
80°	16.6	14.7	12.3	9.8	8.6	7.4	4.9	3.7	1.8	1.2	0.6
82.5°	10.4	8.6	7.4	6.1	5.5	4.3	3.1	1.8	1.2	0.6	0.6
85°	5.5	4.9	4.3	3.1	3.1	2.5	1.8	1.2	0.6	0.0	0.0
87.5°	3.1	2.5	1.8	1.2	1.2	0.6	0.6	0.6	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°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	645.4	645.4	644.8	652.2	643.6	652.2	647.9	652.2	646.0	645.4	646.0
5°	650.3	652.2	652.8	659.5	651.5	662.0	658.3	662.0	657.7	658.9	660.7
7.5°	660.1	663.2	662.6	671.2	663.2	674.9	672.4	677.9	673.6	674.9	677.3
10°	671.2	674.9	675.5	684.1	676.7	690.8	687.7	693.9	690.2	692.0	695.1
12.5°	684.1	688.3	689.0	698.8	690.8	705.5	703.7	709.8	706.8	708.6	712.3
15°	693.9	700.0	701.2	711.0	702.5	717.8	716.6	724.5	719.6	722.7	725.8
17.5°	698.8	704.3	706.8	716.0	708.6	723.9	722.7	729.5	725.8	728.8	732.5
20°	695.7	702.5	704.3	713.5	706.1	721.5	719.6	726.4	722.7	725.2	728.8
22.5°	684.7	691.4	693.9	702.5	695.7	709.8	709.2	715.3	710.4	713.5	716.6
25°	665.0	672.4	673.6	681.6	674.2	689.0	687.7	694.5	690.8	692.6	696.9
27.5°	636.8	645.4	647.2	654.0	648.5	660.7	660.7	666.3	662.0	662.0	666.3
30°	603.1	611.7	612.9	618.4	613.5	624.5	625.2	630.7	623.9	627.6	628.2
32.5°	562.0	567.5	571.2	576.1	568.7	582.8	581.0	585.3	581.6	581.6	584.7
35°	512.3	519.0	520.9	527.0	520.9	531.9	531.9	534.4	530.7	530.7	535.6
37.5°	458.3	463.2	463.8	469.9	465.0	474.2	473.6	475.5	471.8	474.2	474.2
40°	395.1	398.8	400.0	403.1	402.5	409.2	408.6	409.8	408.0	408.6	409.8
42.5°	321.5	326.4	328.8	331.3	327.6	336.8	335.0	336.8	336.2	336.8	338.7
45°	236.8	240.5	242.3	242.9	241.7	247.2	251.5	247.9	248.5	247.2	249.7
47.5°	171.2	171.8	170.6	174.2	171.2	173.6	174.8	175.5	171.8	171.2	173.6
50°	117.2	120.2	116.0	117.8	117.2	119.6	118.4	119.0	115.3	117.2	116.0
52.5°	77.9	77.3	76.1	76.7	75.5	75.5	75.5	76.7	74.2	73.0	71.8
55°	47.2	46.0	43.6	42.9	42.9	43.6	42.3	41.1	41.1	40.5	40.5
57.5°	27.6	25.8	24.5	23.9	22.7	22.1	21.5	21.5	20.2	20.2	20.2
60°	15.3	13.5	12.3	11.0	11.0	10.4	9.8	9.2	9.2	9.2	8.6
62.5°	8.0	6.7	5.5	4.9	4.9	4.3	3.7	3.7	3.7	3.7	3.1
65°	5.5	4.3	3.7	3.1	3.1	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	4.3	3.7	3.1	2.5	2.5	2.5	1.8	1.8	1.8	1.8	1.8
70°	3.7	2.5	2.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	2.5	2.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	651.5	650.9	651.5	652.8	650.3	657.7	654.0	657.7
5°	665.7	666.3	666.9	668.7	665.7	674.9	669.9	675.5
7.5°	684.1	684.7	685.3	687.1	685.3	694.5	689.0	693.9
10°	703.1	704.3	704.3	707.4	705.5	714.1	710.4	716.6
12.5°	720.9	722.1	723.3	725.2	723.9	733.1	730.1	735.0
15°	735.0	737.4	738.0	740.5	739.3	749.1	745.4	750.3
17.5°	741.7	744.2	744.2	747.2	746.0	756.4	751.5	757.1
20°	738.0	739.9	740.5	743.6	742.3	752.8	747.9	754.6
22.5°	726.4	727.0	727.6	730.7	730.1	739.3	735.0	739.3
25°	704.9	706.8	706.1	708.6	708.6	716.0	711.0	714.7
27.5°	674.2	676.1	676.1	679.1	676.7	684.1	679.1	684.7
30°	636.8	638.7	637.4	639.9	637.4	644.8	641.1	643.0
32.5°	592.0	592.0	592.6	593.3	592.0	598.8	595.1	598.8
35°	538.7	539.9	540.5	541.1	539.9	544.8	540.5	542.9
37.5°	478.5	481.6	481.0	481.6	479.8	485.9	482.2	483.4
40°	414.1	414.1	413.5	414.7	412.9	417.8	415.3	416.6
42.5°	339.3	341.1	338.7	341.7	336.8	343.6	341.1	339.3
45°	254.6	252.1	251.5	252.1	250.3	250.9	252.8	251.5
47.5°	173.6	173.6	172.4	170.6	173.0	173.6	171.2	171.2
50°	116.6	116.6	115.3	114.7	116.0	115.3	114.1	116.0
52.5°	74.2	71.8	71.8	73.0	71.8	70.6	72.4	71.2
55°	40.5	39.3	39.3	40.5	39.3	39.3	38.7	39.9
57.5°	19.6	20.2	19.6	19.6	19.6	19.6	19.0	19.6
60°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
62.5°	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.1
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	1.8	1.8	1.8	1.8	1.8	2.5	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)