

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: P252137

Luminaire Tested: **LD6B10D010 EU6B10209040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252137
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 EU6B10209040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1174.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

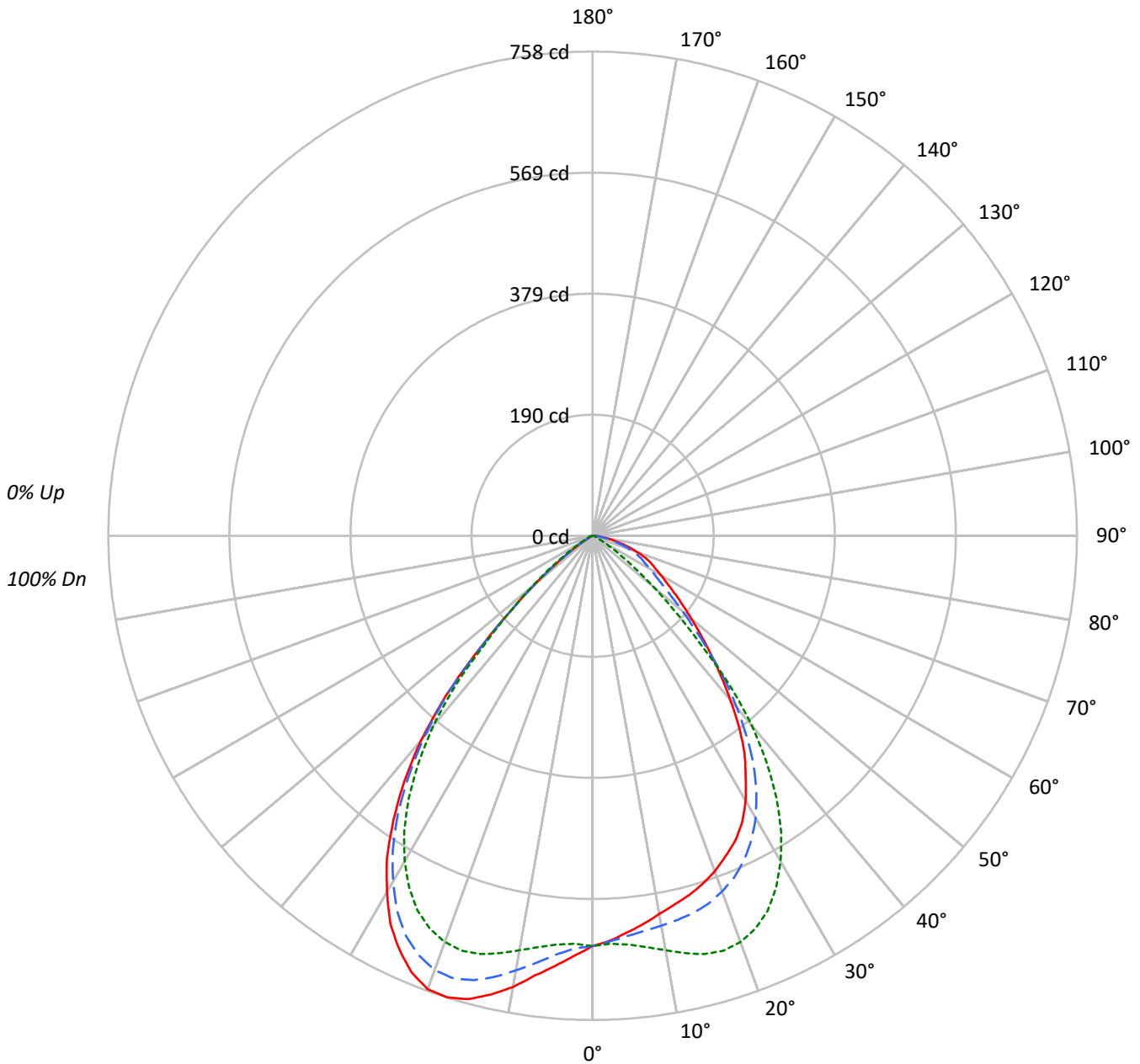
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

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°	41904	41904	41904
5°	40813	42064	44271
10°	39821	43644	47512
15°	39357	45787	50724
20°	38796	46982	52439
25°	37965	46632	51491
30°	36077	44311	48477
35°	33012	39957	43279
40°	28556	33002	35506
45°	24081	21645	23232
50°	20441	12525	11784
55°	17744	6006	4538
60°	16023	2805	1122
65°	15545	1605	386
70°	13944	1297	343
75°	11444	933	151
80°	8529	451	0
85°	7336	0	0



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	5.3
10°-20°	189.1	16.1
20°-30°	288.9	24.6
30°-40°	302.1	25.7
40°-50°	196.0	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°	540.0	46.0
0°-40°	842.1	71.7
0°-60°	1115.9	95.1
0°-90°	1174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	642	642	642	642	642	
5°	623	629	642	658	676	59
15°	583	611	678	720	751	164
25°	527	561	648	691	715	242
35°	414	440	502	531	543	256
45°	261	258	235	249	252	203
55°	156	133	53	41	40	141
65°	101	84	10	2	2	98
75°	45	37	4	1	1	49
85°	10	6	0	0	0	11
90°	0	0	0	0	0	



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	634.3	635.5	628.8	626.9	631.8	633.7	634.3	632.4	633.1	635.5	635.5
5°	623.2	624.5	618.3	616.5	621.4	622.6	624.5	623.8	625.7	629.4	628.8
7.5°	612.8	614.6	607.9	605.4	611.6	614.6	615.9	615.9	618.3	623.2	623.8
10°	601.1	603.6	597.4	596.2	603.0	606.0	606.7	607.9	611.6	618.3	619.6
12.5°	591.3	593.8	589.5	587.6	595.0	598.1	599.3	601.7	606.0	614.6	615.9
15°	582.7	584.6	579.6	578.4	585.8	589.5	590.1	593.8	599.3	609.1	611.0
17.5°	571.7	572.9	569.2	568.0	575.3	579.0	579.6	583.9	590.7	600.5	603.6
20°	558.8	560.0	556.3	555.1	562.4	566.7	567.4	571.0	579.0	589.5	592.5
22.5°	543.4	545.9	541.6	540.3	547.7	551.4	553.2	556.3	564.3	574.7	579.0
25°	527.4	527.4	524.4	523.8	530.5	534.8	534.2	538.5	546.5	556.9	560.6
27.5°	506.6	506.0	502.9	502.3	509.6	513.3	512.1	516.4	523.8	534.2	537.9
30°	478.9	480.2	475.9	474.6	480.8	486.9	486.3	490.6	498.0	507.8	510.3
32.5°	445.8	447.0	446.4	444.6	450.1	453.2	455.0	458.1	464.2	474.6	477.1
35°	414.5	412.6	410.2	410.2	415.7	420.6	418.8	422.4	428.6	439.0	439.6
37.5°	375.8	375.2	373.9	372.7	378.9	380.1	380.7	383.2	388.7	397.3	396.0
40°	335.3	335.9	335.3	332.8	336.5	341.4	340.8	342.0	346.9	353.1	351.2
42.5°	297.2	297.2	297.2	294.7	299.0	301.5	302.7	302.1	303.3	308.9	306.4
45°	261.0	261.6	261.0	260.3	261.0	262.2	261.0	260.3	260.3	262.2	258.5
47.5°	229.6	229.6	227.8	226.0	227.8	228.4	226.6	224.7	224.1	223.5	217.4
50°	201.4	200.8	200.2	197.1	198.9	199.6	197.1	195.9	193.4	190.3	183.0
52.5°	176.8	176.2	175.6	172.5	173.8	174.4	171.9	169.5	166.4	163.9	154.7
55°	156.0	155.3	155.3	153.5	152.3	153.5	151.1	149.2	144.9	141.8	132.6
57.5°	138.2	138.2	136.9	135.1	135.7	135.7	133.2	130.8	127.1	123.4	116.1
60°	122.8	122.8	122.8	121.0	121.0	121.0	119.7	117.3	114.2	110.5	103.2
62.5°	110.5	110.5	109.9	108.1	108.7	108.7	107.5	105.0	101.9	99.5	92.1
65°	100.7	100.7	100.7	98.9	98.9	99.5	98.2	95.8	93.3	90.3	83.5
67.5°	88.4	87.8	87.8	86.6	87.2	87.8	86.6	84.7	81.7	79.8	73.7
70°	73.1	73.7	74.3	72.5	73.1	73.1	72.5	70.6	68.8	66.9	61.4
72.5°	59.6	59.6	58.9	58.3	58.3	58.9	57.7	55.9	54.6	53.4	49.1
75°	45.4	44.8	45.4	44.2	44.2	44.2	43.0	42.4	41.8	39.9	36.8
77.5°	33.2	32.5	32.5	31.3	31.9	31.9	31.3	30.1	28.9	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°	15.4	15.4	15.4	14.7	14.7	14.7	14.1	13.5	12.9	12.3	11.1
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



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	639.8	631.2	636.7	636.7	634.9	639.8	642.9	645.3	644.7	639.2	638.6
5°	634.9	627.5	633.7	634.3	632.4	639.2	643.5	646.6	647.2	642.3	642.9
7.5°	631.2	625.1	633.1	635.5	634.9	641.0	646.0	650.9	653.3	649.6	650.3
10°	629.4	624.5	633.1	636.7	637.4	644.1	651.5	658.2	661.3	658.8	660.7
12.5°	626.9	623.8	633.7	639.2	641.7	648.4	657.6	665.6	670.5	669.3	673.0
15°	624.5	622.0	633.7	641.7	644.7	650.9	661.3	673.0	678.5	677.9	682.8
17.5°	618.3	617.7	630.0	638.6	642.9	650.3	660.1	674.2	679.7	681.0	687.1
20°	608.5	608.5	622.0	631.2	636.1	642.9	655.2	668.7	675.4	676.7	683.4
22.5°	595.0	596.2	609.1	618.3	625.7	630.6	643.5	657.6	663.8	665.6	673.0
25°	577.2	578.4	590.7	599.9	607.9	613.4	625.7	638.6	646.0	647.8	653.3
27.5°	553.9	556.3	568.0	577.2	583.9	587.6	600.5	614.0	619.6	621.4	626.9
30°	526.8	527.4	539.1	547.1	553.9	556.9	568.0	582.1	586.4	588.2	596.2
32.5°	493.7	493.1	504.1	511.5	517.0	520.7	532.4	541.6	545.9	548.9	553.2
35°	453.8	453.2	461.1	469.7	474.0	475.3	486.9	496.7	499.2	501.7	507.2
37.5°	408.9	408.9	415.7	420.0	424.9	426.7	432.3	443.3	447.6	447.0	451.3
40°	361.7	359.2	364.1	368.4	369.6	370.3	375.8	384.4	387.5	387.5	390.5
42.5°	311.9	308.2	308.9	311.3	312.5	308.2	311.9	317.5	315.6	318.1	318.7
45°	259.1	253.6	251.1	245.6	246.8	242.5	240.1	241.3	240.7	234.6	235.8
47.5°	216.1	206.3	202.0	194.0	192.2	187.3	184.2	178.7	173.8	173.8	170.7
50°	179.9	170.1	161.5	152.3	149.2	144.9	138.2	130.8	127.1	123.4	120.3
52.5°	151.1	140.6	130.2	120.3	116.1	110.5	101.3	93.9	87.2	83.5	79.8
55°	127.7	116.1	105.0	94.6	89.0	83.5	74.3	65.7	57.7	52.8	49.7
57.5°	109.9	98.9	87.2	76.1	71.2	65.1	55.3	46.1	38.7	33.2	30.1
60°	97.0	86.0	75.5	63.9	58.9	52.8	42.4	33.8	26.4	21.5	17.8
62.5°	86.0	76.1	65.1	54.6	49.7	43.6	33.8	25.2	18.4	13.5	10.4
65°	78.0	68.2	58.9	48.5	44.2	38.1	28.9	20.9	14.7	10.4	7.4
67.5°	68.8	60.2	51.0	42.4	38.1	33.2	24.6	17.8	12.3	8.6	6.1
70°	57.7	51.0	43.0	35.0	31.9	27.6	20.3	14.7	9.8	6.8	4.9
72.5°	46.1	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



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	646.0	646.0	645.3	652.7	644.1	652.7	648.4	652.7	646.6	646.0	646.6
5°	650.9	652.7	653.3	660.1	652.1	662.5	658.8	662.5	658.2	659.5	661.3
7.5°	660.7	663.8	663.1	671.7	663.8	675.4	673.0	678.5	674.2	675.4	677.9
10°	671.7	675.4	676.0	684.6	677.3	691.4	688.3	694.5	690.8	692.6	695.7
12.5°	684.6	688.9	689.6	699.4	691.4	706.1	704.3	710.4	707.4	709.2	712.9
15°	694.5	700.6	701.8	711.7	703.1	718.4	717.2	725.2	720.3	723.3	726.4
17.5°	699.4	704.9	707.4	716.6	709.2	724.6	723.3	730.1	726.4	729.5	733.1
20°	696.3	703.1	704.9	714.1	706.7	722.1	720.3	727.0	723.3	725.8	729.5
22.5°	685.3	692.0	694.5	703.1	696.3	710.4	709.8	716.0	711.0	714.1	717.2
25°	665.6	673.0	674.2	682.2	674.8	689.6	688.3	695.1	691.4	693.2	697.5
27.5°	637.4	646.0	647.8	654.6	649.0	661.3	661.3	666.8	662.5	662.5	666.8
30°	603.6	612.2	613.4	618.9	614.0	625.1	625.7	631.2	624.5	628.1	628.8
32.5°	562.4	568.0	571.7	576.6	569.2	583.3	581.5	585.8	582.1	582.1	585.2
35°	512.7	519.5	521.3	527.4	521.3	532.4	532.4	534.8	531.1	531.1	536.0
37.5°	458.7	463.6	464.2	470.3	465.4	474.6	474.0	475.9	472.2	474.6	474.6
40°	395.4	399.1	400.3	403.4	402.8	409.6	408.9	410.2	408.3	408.9	410.2
42.5°	321.7	326.7	329.1	331.6	327.9	337.1	335.3	337.1	336.5	337.1	338.9
45°	237.0	240.7	242.5	243.2	241.9	247.5	251.8	248.1	248.7	247.5	249.9
47.5°	171.3	171.9	170.7	174.4	171.3	173.8	175.0	175.6	171.9	171.3	173.8
50°	117.3	120.3	116.1	117.9	117.3	119.7	118.5	119.1	115.4	117.3	116.1
52.5°	78.0	77.4	76.1	76.8	75.5	75.5	75.5	76.8	74.3	73.1	71.8
55°	47.3	46.1	43.6	43.0	43.0	43.6	42.4	41.1	41.1	40.5	40.5
57.5°	27.6	25.8	24.6	23.9	22.7	22.1	21.5	21.5	20.3	20.3	20.3
60°	15.4	13.5	12.3	11.1	11.1	10.4	9.8	9.2	9.2	9.2	8.6
62.5°	8.0	6.8	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



TEST NUMBER: P252137

CATALOG NUMBER: LD6B10D010 EU6B10209040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	652.1	651.5	652.1	653.3	650.9	658.2	654.6	658.2
5°	666.2	666.8	667.4	669.3	666.2	675.4	670.5	676.0
7.5°	684.6	685.3	685.9	687.7	685.9	695.1	689.6	694.5
10°	703.7	704.9	704.9	708.0	706.1	714.7	711.0	717.2
12.5°	721.5	722.7	723.9	725.8	724.6	733.8	730.7	735.6
15°	735.6	738.1	738.7	741.1	739.9	749.7	746.0	751.0
17.5°	742.4	744.8	744.8	747.9	746.7	757.1	752.2	757.7
20°	738.7	740.5	741.1	744.2	743.0	753.4	748.5	755.3
22.5°	727.0	727.6	728.2	731.3	730.7	739.9	735.6	739.9
25°	705.5	707.4	706.7	709.2	709.2	716.6	711.7	715.3
27.5°	674.8	676.7	676.7	679.7	677.3	684.6	679.7	685.3
30°	637.4	639.2	638.0	640.4	638.0	645.3	641.7	643.5
32.5°	592.5	592.5	593.1	593.8	592.5	599.3	595.6	599.3
35°	539.1	540.3	541.0	541.6	540.3	545.3	541.0	543.4
37.5°	478.9	482.0	481.4	482.0	480.2	486.3	482.6	483.9
40°	414.5	414.5	413.9	415.1	413.2	418.2	415.7	416.9
42.5°	339.6	341.4	338.9	342.0	337.1	343.9	341.4	339.6
45°	254.8	252.4	251.8	252.4	250.5	251.1	253.0	251.8
47.5°	173.8	173.8	172.5	170.7	173.2	173.8	171.3	171.3
50°	116.7	116.7	115.4	114.8	116.1	115.4	114.2	116.1
52.5°	74.3	71.8	71.8	73.1	71.8	70.6	72.5	71.2
55°	40.5	39.3	39.3	40.5	39.3	39.3	38.7	39.9
57.5°	19.6	20.3	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)