

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: P252560

Luminaire Tested: **LD6B15D010 EU6B10208040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1514.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

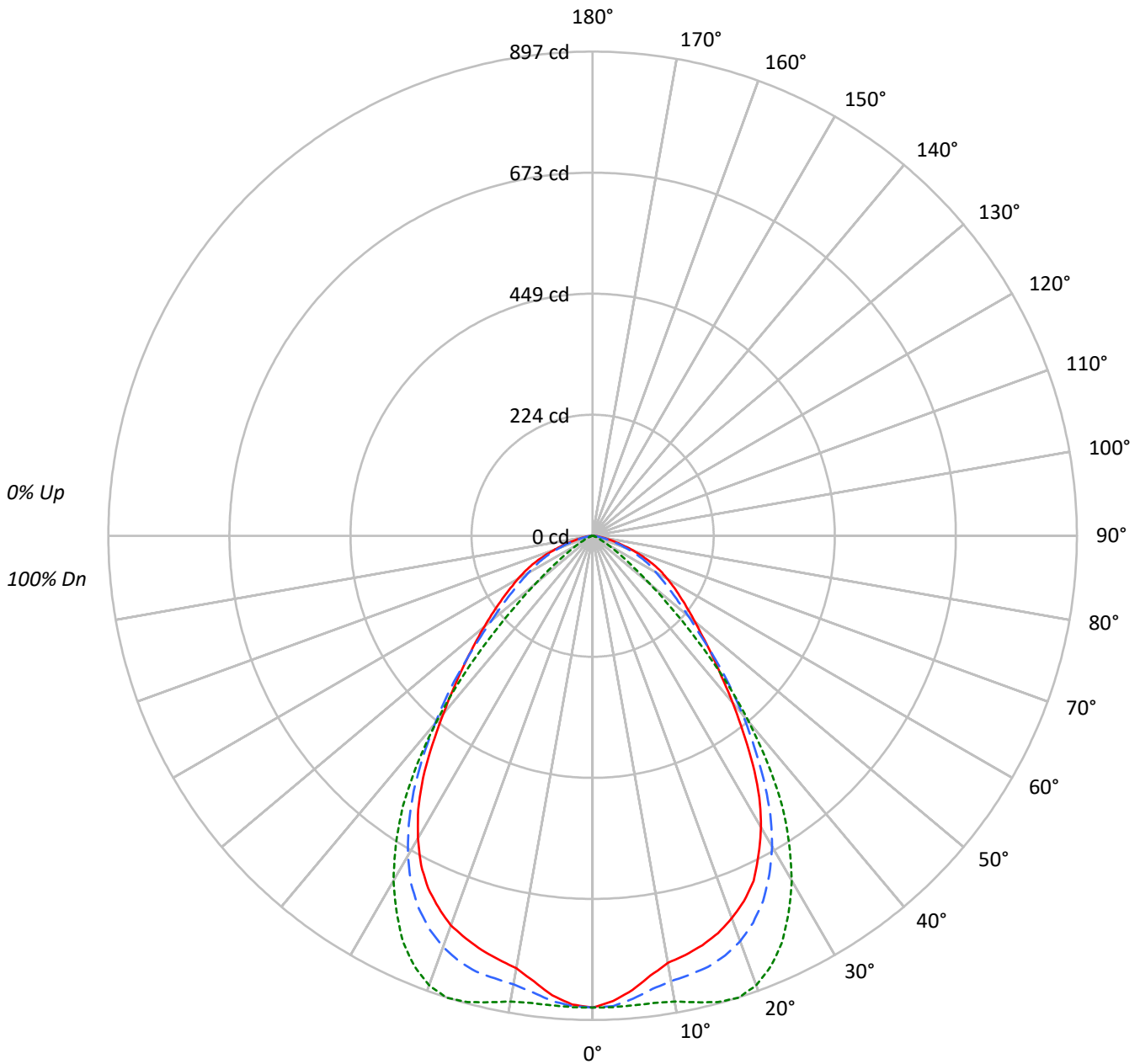
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57027	57027	57027
5°	55326	57179	55987
10°	53223	58039	53892
15°	53034	60403	53649
20°	52341	61527	53320
25°	50771	59798	51865
30°	46970	55573	48718
35°	41208	48854	43621
40°	34339	38299	36579
45°	28906	25271	30862
50°	25029	13844	26562
55°	22646	7359	23215
60°	20838	3823	20838
65°	18880	2022	18401
70°	15222	1164	14077
75°	10436	756	9680
80°	6838	376	6086
85°	4566	749	3818



TEST NUMBER: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	5.4
10°-20°	235.7	15.6
20°-30°	348.2	23.0
30°-40°	351.7	23.2
40°-50°	242.4	16.0
50°-60°	139.2	9.2
60°-70°	81.0	5.4
70°-80°	29.6	2.0
80°-90°	4.5	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°	665.4	44.0
0°-40°	1017.2	67.2
0°-60°	1398.9	92.4
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	874	874	874	874	874	
5°	845	861	873	865	855	79
15°	785	827	894	836	794	221
25°	705	747	831	762	720	321
35°	517	553	613	578	548	321
45°	313	317	274	338	334	244
55°	199	175	65	182	204	179
65°	122	103	13	102	119	120
75°	41	33	3	32	38	47
85°	6	3	1	4	5	8
90°	0	0	0	0	0	



TEST NUMBER: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	863.0	864.0	865.0	864.0	865.0	869.1	866.0	868.0	868.0	869.1	872.1
5°	844.8	844.8	846.8	845.8	848.8	852.9	849.9	852.9	853.9	855.9	861.0
7.5°	821.6	821.6	822.6	822.6	826.6	830.7	828.6	832.7	836.7	840.8	846.8
10°	803.4	805.4	805.4	806.4	810.4	815.5	814.5	819.5	823.6	829.6	837.7
12.5°	795.3	796.3	796.3	798.3	802.4	807.4	806.4	811.5	817.5	824.6	832.7
15°	785.2	787.2	786.2	788.2	792.3	797.3	796.3	801.3	808.4	815.5	826.6
17.5°	772.0	773.1	774.1	774.1	778.1	782.1	782.1	787.2	795.3	803.4	815.5
20°	753.9	755.9	755.9	756.9	759.9	766.0	765.0	770.0	778.1	786.2	799.3
22.5°	732.6	733.6	733.6	734.7	739.7	742.7	743.7	747.8	754.9	764.0	776.1
25°	705.3	706.4	705.3	708.4	710.4	716.5	714.4	719.5	727.6	734.7	746.8
27.5°	665.9	668.0	668.0	669.0	674.0	679.1	679.1	684.1	691.2	696.3	708.4
30°	623.5	626.5	623.5	628.5	630.6	634.6	637.6	640.7	646.7	653.8	664.9
32.5°	575.0	574.0	575.0	577.0	583.1	586.1	588.1	591.2	597.2	603.3	612.4
35°	517.4	519.4	520.4	524.5	524.5	529.5	530.5	532.5	541.6	545.7	552.8
37.5°	456.8	458.8	459.8	461.8	465.9	467.9	470.9	473.9	480.0	487.1	491.1
40°	403.2	403.2	404.2	406.2	409.3	410.3	413.3	417.3	421.4	427.5	431.5
42.5°	352.7	353.7	352.7	354.7	357.7	361.8	360.8	365.8	366.8	370.9	373.9
45°	313.3	313.3	311.2	313.3	313.3	317.3	316.3	318.3	317.3	319.3	317.3
47.5°	275.9	276.9	275.9	276.9	276.9	276.9	277.9	275.9	276.9	273.9	267.8
50°	246.6	247.6	245.6	246.6	245.6	244.5	245.6	242.5	241.5	237.5	231.4
52.5°	221.3	220.3	219.3	219.3	219.3	218.3	217.3	214.2	211.2	207.2	200.1
55°	199.1	198.1	197.1	197.1	195.0	194.0	194.0	191.0	188.0	182.9	174.8
57.5°	178.9	177.9	176.8	176.8	175.8	173.8	173.8	170.8	166.7	160.7	153.6
60°	159.7	159.7	159.7	158.7	158.7	156.6	156.6	153.6	149.6	143.5	135.4
62.5°	142.5	141.5	141.5	141.5	141.5	140.5	139.5	137.4	133.4	127.3	120.3
65°	122.3	122.3	122.3	122.3	121.3	121.3	121.3	118.2	116.2	110.1	103.1
67.5°	100.0	100.0	100.0	100.0	99.0	100.0	100.0	98.0	96.0	89.9	83.9
70°	79.8	78.8	77.8	78.8	77.8	77.8	78.8	76.8	75.8	70.7	64.7
72.5°	58.6	59.6	58.6	58.6	58.6	57.6	58.6	57.6	55.6	51.5	47.5
75°	41.4	42.4	42.4	41.4	41.4	41.4	40.4	40.4	38.4	35.4	33.3
77.5°	28.3	28.3	28.3	28.3	27.3	27.3	27.3	26.3	25.3	23.2	21.2
80°	18.2	18.2	18.2	18.2	17.2	17.2	17.2	16.2	16.2	14.1	12.1
82.5°	11.1	11.1	11.1	11.1	11.1	11.1	10.1	10.1	9.1	8.1	7.1
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.1	5.1	4.0	3.0
87.5°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
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: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	870.1	871.1	871.1	871.1	874.1	875.1	872.1	869.1	875.1	874.1	876.1
5°	860.0	863.0	865.0	866.0	869.1	871.1	868.0	867.0	872.1	873.1	874.1
7.5°	847.8	852.9	857.9	860.0	864.0	866.0	865.0	865.0	871.1	873.1	873.1
10°	839.7	846.8	852.9	857.9	863.0	866.0	866.0	867.0	874.1	876.1	878.1
12.5°	837.7	846.8	854.9	862.0	866.0	871.1	872.1	875.1	882.2	885.2	885.2
15°	832.7	844.8	854.9	864.0	870.1	876.1	878.1	884.2	892.3	894.3	896.3
17.5°	823.6	835.7	847.8	858.9	867.0	872.1	878.1	884.2	894.3	897.3	898.4
20°	807.4	821.6	833.7	844.8	852.9	860.0	866.0	873.1	882.2	886.2	887.2
22.5°	783.2	797.3	809.4	821.6	829.6	835.7	841.8	849.9	858.9	863.0	863.0
25°	753.9	767.0	780.1	789.2	797.3	804.4	807.4	816.5	825.6	830.7	830.7
27.5°	716.5	728.6	740.7	750.8	755.9	761.9	767.0	775.1	782.1	786.2	790.2
30°	669.0	681.1	692.2	702.3	708.4	714.4	719.5	725.6	732.6	737.7	738.7
32.5°	617.4	627.5	638.7	648.8	654.8	656.8	661.9	668.0	674.0	678.1	679.1
35°	560.8	567.9	575.0	584.1	590.1	590.1	595.2	599.2	604.3	613.4	611.4
37.5°	494.1	504.3	509.3	512.3	516.4	520.4	521.4	526.5	532.5	534.6	537.6
40°	431.5	434.5	437.6	437.6	441.6	441.6	441.6	442.6	448.7	449.7	453.7
42.5°	368.8	368.8	365.8	362.8	363.8	362.8	357.7	357.7	360.8	364.8	364.8
45°	310.2	303.2	294.1	287.0	281.9	279.9	273.9	273.9	272.8	273.9	277.9
47.5°	260.7	248.6	233.4	219.3	214.2	210.2	201.1	197.1	195.0	196.0	198.1
50°	219.3	206.1	189.0	171.8	162.7	157.6	146.5	139.5	138.4	136.4	140.5
52.5°	189.0	172.8	154.6	134.4	125.3	117.2	105.1	99.0	95.0	95.0	96.0
55°	162.7	145.5	125.3	105.1	96.0	89.9	77.8	69.7	65.7	64.7	67.7
57.5°	140.5	124.3	104.1	83.9	74.8	67.7	55.6	48.5	45.5	43.5	44.5
60°	123.3	107.1	86.9	67.7	59.6	51.5	41.4	33.3	29.3	29.3	30.3
62.5°	107.1	92.0	73.8	55.6	48.5	41.4	30.3	23.2	20.2	19.2	20.2
65°	90.9	76.8	61.6	46.5	39.4	33.3	24.3	18.2	14.1	13.1	14.1
67.5°	73.8	62.7	49.5	37.4	31.3	26.3	18.2	13.1	10.1	9.1	10.1
70°	57.6	47.5	37.4	27.3	23.2	19.2	13.1	10.1	7.1	6.1	7.1
72.5°	41.4	34.4	26.3	19.2	16.2	13.1	9.1	7.1	5.1	4.0	5.1
75°	28.3	23.2	17.2	12.1	10.1	9.1	6.1	4.0	3.0	3.0	3.0
77.5°	18.2	14.1	11.1	8.1	6.1	5.1	3.0	2.0	2.0	2.0	2.0
80°	10.1	8.1	6.1	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
82.5°	6.1	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	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: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	872.1	873.1	870.1	874.1	871.1	875.1	875.1	871.1	872.1	870.1	874.1
5°	870.1	870.1	868.0	871.1	867.0	871.1	870.1	863.0	865.0	861.0	865.0
7.5°	870.1	868.0	865.0	868.0	863.0	866.0	862.0	854.9	852.9	847.8	847.8
10°	873.1	870.1	866.0	867.0	862.0	863.0	856.9	846.8	843.8	837.7	835.7
12.5°	880.2	877.1	871.1	873.1	866.0	866.0	857.9	845.8	839.7	831.7	829.6
15°	890.3	885.2	878.1	879.2	872.1	868.0	857.9	843.8	835.7	824.6	821.6
17.5°	892.3	887.2	878.1	878.1	869.1	864.0	851.9	835.7	825.6	814.5	808.4
20°	881.2	876.1	866.0	865.0	856.9	849.9	836.7	820.5	810.4	798.3	793.3
22.5°	857.9	851.9	842.8	841.8	833.7	829.6	815.5	799.3	789.2	777.1	773.1
25°	823.6	820.5	811.5	810.4	803.4	798.3	786.2	771.0	761.9	749.8	745.8
27.5°	783.2	780.1	771.0	771.0	762.9	759.9	748.8	734.7	727.6	716.5	711.4
30°	734.7	730.6	725.6	724.5	717.5	714.4	704.3	691.2	684.1	675.0	673.0
32.5°	677.1	674.0	671.0	670.0	662.9	659.9	652.8	639.7	633.6	625.5	622.5
35°	610.4	608.3	605.3	604.3	601.3	598.2	591.2	581.1	578.0	572.0	568.9
37.5°	533.6	535.6	533.6	533.6	530.5	531.5	525.5	519.4	516.4	512.3	510.3
40°	450.7	454.7	457.8	457.8	456.8	460.8	459.8	454.7	453.7	451.7	450.7
42.5°	366.8	368.8	374.9	378.9	377.9	388.0	389.1	393.1	396.1	394.1	395.1
45°	278.9	285.0	293.1	297.1	302.1	315.3	322.4	330.4	337.5	341.6	340.5
47.5°	201.1	208.2	217.3	223.3	232.4	248.6	266.8	276.9	287.0	292.0	297.1
50°	145.5	152.6	163.7	172.8	178.9	201.1	220.3	233.4	244.5	251.6	256.7
52.5°	102.1	110.1	122.3	130.4	139.5	160.7	182.9	198.1	210.2	219.3	224.3
55°	70.7	79.8	90.9	99.0	109.1	131.4	152.6	168.8	181.9	190.0	196.0
57.5°	49.5	57.6	68.7	75.8	85.9	107.1	128.3	144.5	157.6	165.7	172.8
60°	33.3	41.4	52.5	59.6	67.7	88.9	108.1	125.3	137.4	145.5	152.6
62.5°	23.2	30.3	41.4	48.5	55.6	73.8	92.0	107.1	119.2	128.3	134.4
65°	18.2	24.3	33.3	39.4	46.5	61.6	76.8	89.9	102.1	111.2	115.2
67.5°	13.1	19.2	26.3	31.3	36.4	49.5	62.7	72.8	83.9	90.9	96.0
70°	9.1	13.1	19.2	23.2	27.3	37.4	47.5	56.6	64.7	69.7	73.8
72.5°	7.1	9.1	13.1	16.2	19.2	26.3	34.4	41.4	47.5	51.5	55.6
75°	4.0	6.1	9.1	11.1	13.1	18.2	23.2	28.3	32.3	35.4	37.4
77.5°	2.0	3.0	5.1	6.1	8.1	11.1	15.2	18.2	21.2	23.2	25.3
80°	2.0	2.0	3.0	3.0	4.0	6.1	8.1	10.1	12.1	14.1	15.2
82.5°	1.0	1.0	2.0	2.0	2.0	3.0	4.0	6.1	7.1	8.1	9.1
85°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	5.1	5.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0
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: P252560

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	871.1	873.1	872.1	874.1	871.1	870.1	872.1	869.1
5°	860.0	861.0	860.0	860.0	857.9	855.9	857.9	854.9
7.5°	842.8	842.8	839.7	839.7	835.7	833.7	833.7	832.7
10°	828.6	825.6	822.6	823.6	817.5	815.5	814.5	813.5
12.5°	821.6	819.5	814.5	814.5	808.4	806.4	805.4	804.4
15°	813.5	809.4	805.4	804.4	799.3	797.3	796.3	794.3
17.5°	799.3	796.3	791.2	791.2	786.2	785.2	783.2	782.1
20°	784.2	780.1	776.1	776.1	770.0	770.0	767.0	768.0
22.5°	762.9	759.9	755.9	755.9	750.8	749.8	746.8	745.8
25°	737.7	733.6	730.6	729.6	725.6	723.5	722.5	720.5
27.5°	704.3	701.3	698.3	696.3	691.2	690.2	687.2	688.2
30°	662.9	660.9	659.9	657.9	651.8	649.8	649.8	646.7
32.5°	617.4	614.4	612.4	609.3	604.3	603.3	600.3	601.3
35°	561.9	557.8	554.8	555.8	549.7	548.7	546.7	547.7
37.5°	504.3	500.2	496.2	495.2	490.1	490.1	487.1	487.1
40°	444.6	440.6	438.6	438.6	432.5	433.5	430.5	429.5
42.5°	391.1	387.0	386.0	385.0	382.0	381.0	377.9	378.9
45°	340.5	339.5	339.5	337.5	334.5	333.5	334.5	334.5
47.5°	296.1	297.1	296.1	296.1	294.1	296.1	294.1	295.1
50°	258.7	260.7	260.7	260.7	259.7	260.7	260.7	261.7
52.5°	227.4	230.4	229.4	230.4	229.4	231.4	230.4	231.4
55°	200.1	202.1	203.1	204.1	204.1	204.1	204.1	204.1
57.5°	174.8	177.9	178.9	179.9	179.9	181.9	179.9	179.9
60°	154.6	157.6	158.7	159.7	159.7	160.7	158.7	159.7
62.5°	136.4	139.5	139.5	140.5	140.5	140.5	138.4	139.5
65°	118.2	119.2	120.3	120.3	119.2	119.2	118.2	119.2
67.5°	98.0	99.0	98.0	98.0	97.0	97.0	95.0	96.0
70°	75.8	75.8	76.8	75.8	74.8	75.8	74.8	73.8
72.5°	56.6	56.6	56.6	55.6	55.6	54.6	55.6	55.6
75°	38.4	38.4	39.4	39.4	39.4	39.4	38.4	38.4
77.5°	25.3	25.3	25.3	25.3	26.3	25.3	25.3	25.3
80°	16.2	16.2	17.2	17.2	16.2	16.2	16.2	16.2
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
85°	6.1	6.1	6.1	6.1	5.1	5.1	5.1	5.1
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0
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)