

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: P252467

Luminaire Tested: **LD6B20D010 EU6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10208030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1730.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

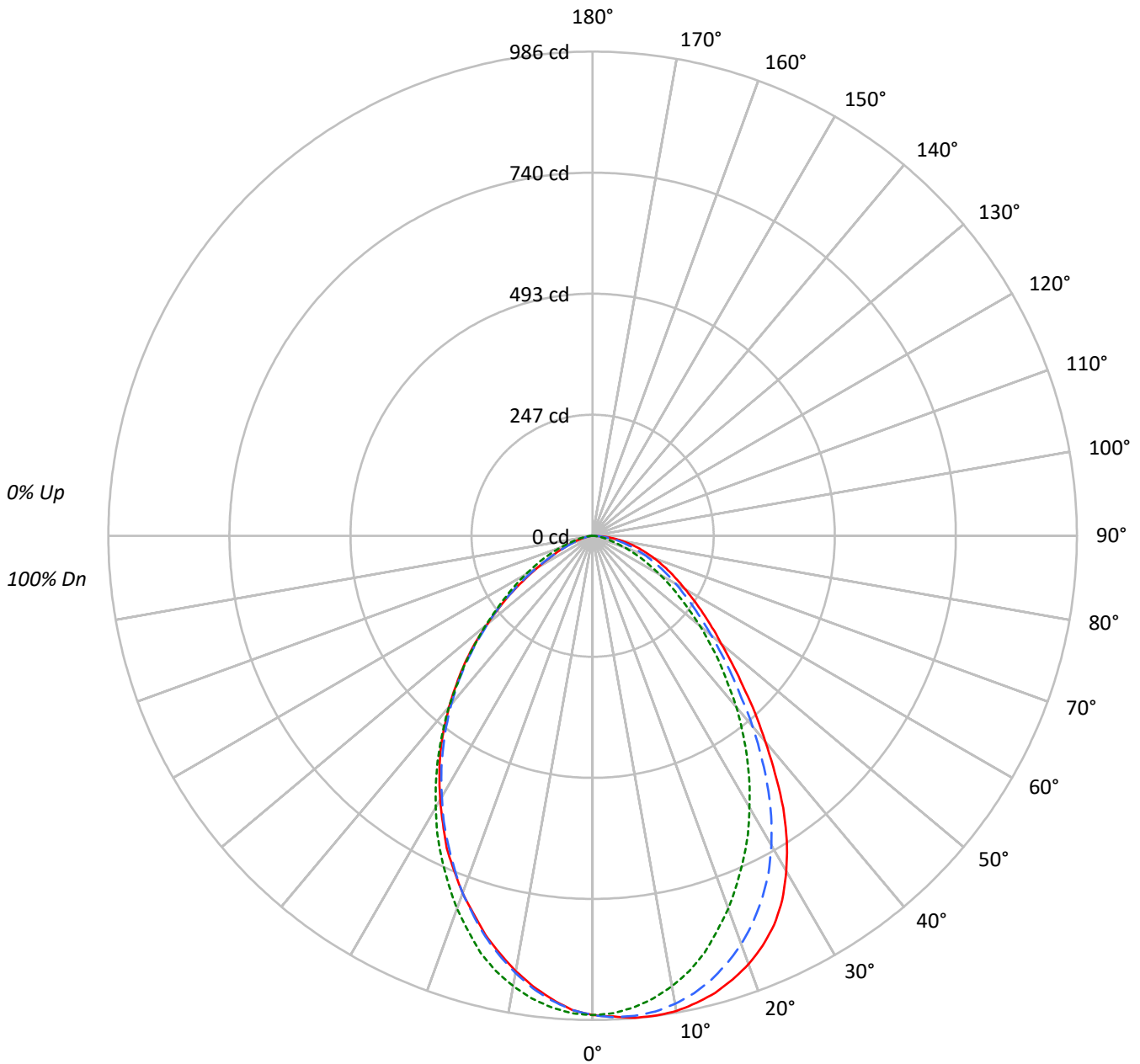
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	63675	63675	63675
5°	64540	63119	62052
10°	65108	61689	59629
15°	65097	59417	56857
20°	64464	56091	53737
25°	62937	52304	50548
30°	59431	48100	46767
35°	53871	43613	43079
40°	46526	38793	38674
45°	39895	33769	34018
50°	34671	28896	28480
55°	31143	24364	22817
60°	28301	20512	16806
65°	26583	16950	12350
70°	25332	13181	9042
75°	24249	9579	6151
80°	22918	6612	4058
85°	20286	4042	2021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	5.3
10°-20°	250.0	14.5
20°-30°	347.1	20.1
30°-40°	359.6	20.8
40°-50°	295.5	17.1
50°-60°	203.1	11.7
60°-70°	116.7	6.7
70°-80°	53.7	3.1
80°-90°	13.1	0.8
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°	688.5	39.8
0°-40°	1048.0	60.6
0°-60°	1546.5	89.4
0°-90°	1730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1730.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	976	976	976	976	976	
5°	986	981	964	950	948	94
15°	964	935	880	844	842	271
25°	874	816	727	695	702	400
35°	676	621	548	531	541	419
45°	432	400	366	362	369	337
55°	274	248	214	202	201	246
65°	172	150	110	77	80	171
75°	96	76	38	24	24	102
85°	27	19	5	3	3	30
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°	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0
2.5°	980.0	988.2	982.8	981.4	984.1	984.1	984.1	980.0	982.8	978.7	981.4
5°	985.5	992.2	986.8	984.1	986.8	988.2	984.1	981.4	985.5	980.0	981.4
7.5°	985.5	992.2	986.8	985.5	986.8	986.8	985.5	980.0	982.8	977.3	977.3
10°	982.8	988.2	982.8	980.0	981.4	980.0	980.0	973.3	974.6	967.8	967.8
12.5°	974.6	981.4	974.6	971.9	971.9	971.9	967.8	962.4	963.8	955.6	954.3
15°	963.8	969.2	962.4	959.7	959.7	958.4	955.6	947.5	947.5	939.4	935.3
17.5°	947.5	952.9	947.5	943.4	942.1	939.4	936.7	928.5	925.8	916.3	912.3
20°	928.5	932.6	927.2	923.1	920.4	917.7	912.3	904.1	901.4	891.9	885.2
22.5°	904.1	909.6	901.4	897.4	894.6	890.6	885.2	877.0	873.0	860.8	852.6
25°	874.3	877.0	870.2	866.2	860.8	858.0	854.0	843.1	839.1	825.5	816.0
27.5°	836.4	839.1	830.9	828.2	821.4	818.7	813.3	803.8	798.4	784.8	775.4
30°	788.9	791.6	786.2	782.1	776.7	771.3	767.2	757.7	749.6	736.0	727.9
32.5°	736.0	740.1	734.7	729.3	719.8	721.1	714.4	704.9	698.1	685.9	676.4
35°	676.4	679.1	672.3	671.0	665.6	660.1	653.4	646.6	642.5	629.0	620.8
37.5°	610.0	616.8	610.0	604.6	601.9	597.8	593.7	584.2	581.5	573.4	562.5
40°	546.3	550.3	546.3	540.9	536.8	536.8	531.4	525.9	519.2	511.0	507.0
42.5°	489.3	486.6	485.3	482.6	477.1	475.8	474.4	467.7	463.6	455.5	448.7
45°	432.4	433.8	431.1	429.7	425.6	422.9	420.2	414.8	413.4	405.3	399.9
47.5°	385.0	383.6	380.9	380.9	378.2	375.5	372.8	368.7	367.3	360.6	355.1
50°	341.6	342.9	341.6	340.2	336.2	334.8	332.1	329.4	326.7	319.9	314.5
52.5°	306.3	305.0	303.6	303.6	299.6	298.2	295.5	292.8	290.1	283.3	279.2
55°	273.8	273.8	272.5	271.1	267.0	265.7	264.3	261.6	257.5	252.1	248.1
57.5°	244.0	244.0	242.6	241.3	238.6	238.6	235.9	233.1	230.4	225.0	219.6
60°	216.9	218.2	216.9	215.5	212.8	212.8	211.5	207.4	206.0	199.3	195.2
62.5°	193.8	193.8	193.8	192.5	191.1	188.4	188.4	184.4	181.6	177.6	172.2
65°	172.2	172.2	172.2	170.8	168.1	166.7	165.4	162.7	160.0	155.9	150.5
67.5°	151.8	151.8	151.8	150.5	147.8	146.4	145.0	143.7	139.6	135.6	130.1
70°	132.8	132.8	131.5	130.1	128.8	127.4	126.1	123.4	120.6	115.2	111.2
72.5°	113.9	113.9	113.9	111.2	109.8	109.8	107.1	105.7	103.0	97.6	93.5
75°	96.2	94.9	94.9	93.5	92.2	90.8	89.5	88.1	84.0	81.3	75.9
77.5°	78.6	78.6	77.3	75.9	75.9	74.6	73.2	70.5	69.1	65.1	61.0
80°	61.0	61.0	61.0	61.0	59.6	58.3	58.3	55.6	54.2	50.2	47.4
82.5°	46.1	44.7	44.7	44.7	43.4	42.0	42.0	40.7	39.3	36.6	33.9
85°	27.1	25.8	25.8	25.8	24.4	24.4	23.0	23.0	21.7	19.0	19.0
87.5°	8.1	8.1	9.5	9.5	8.1	8.1	8.1	8.1	8.1	6.8	6.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0
2.5°	978.7	982.8	977.3	976.0	981.4	978.7	977.3	974.6	976.0	973.3	969.2
5°	977.3	982.8	976.0	971.9	978.7	974.6	971.9	969.2	969.2	963.8	961.1
7.5°	973.3	976.0	969.2	965.1	969.2	965.1	962.4	958.4	957.0	950.2	946.2
10°	962.4	965.1	957.0	951.6	955.6	950.2	946.2	942.1	939.4	931.2	925.8
12.5°	947.5	948.9	939.4	932.6	935.3	931.2	924.5	919.0	916.3	908.2	901.4
15°	927.2	928.5	917.7	908.2	910.9	905.5	897.4	891.9	887.9	879.7	870.2
17.5°	902.8	901.4	889.2	879.7	881.1	874.3	866.2	858.0	852.6	843.1	836.4
20°	875.7	871.6	858.0	847.2	848.6	840.4	830.9	822.8	816.0	807.9	798.4
22.5°	841.8	836.4	824.2	810.6	812.0	805.2	791.6	784.8	778.1	767.2	759.1
25°	805.2	797.0	784.8	771.3	771.3	763.2	752.3	744.2	737.4	726.6	717.1
27.5°	761.8	757.7	741.5	730.6	729.3	721.1	711.6	702.2	694.0	684.5	675.1
30°	714.4	707.6	695.4	683.2	680.5	673.7	664.2	653.4	647.9	638.5	630.3
32.5°	664.2	657.4	643.9	631.7	630.3	624.9	616.8	605.9	600.5	593.7	588.3
35°	607.3	604.6	591.0	581.5	581.5	576.1	568.0	558.5	554.4	547.6	540.9
37.5°	553.1	549.0	536.8	528.7	528.7	521.9	513.7	509.7	505.6	500.2	496.1
40°	496.1	493.4	483.9	475.8	477.1	471.7	466.3	460.9	458.2	455.5	451.4
42.5°	443.3	440.5	433.8	427.0	427.0	422.9	417.5	413.4	410.7	406.7	405.3
45°	395.8	391.7	386.3	379.5	379.5	375.5	372.8	370.1	368.7	366.0	361.9
47.5°	349.7	347.0	341.6	334.8	334.8	334.8	329.4	325.3	325.3	322.6	321.3
50°	310.4	306.3	302.3	296.9	296.9	294.1	290.1	286.0	286.0	284.7	281.9
52.5°	273.8	271.1	265.7	260.3	260.3	257.5	253.5	252.1	250.8	246.7	245.3
55°	242.6	239.9	235.9	229.1	227.7	226.4	222.3	219.6	218.2	214.2	214.2
57.5°	214.2	211.5	204.7	200.6	199.3	196.6	192.5	189.8	188.4	185.7	183.0
60°	189.8	185.7	180.3	174.9	173.5	170.8	166.7	164.0	162.7	157.2	154.5
62.5°	166.7	162.7	157.2	151.8	150.5	147.8	142.3	139.6	136.9	131.5	128.8
65°	145.0	141.0	135.6	130.1	127.4	126.1	120.6	116.6	113.9	109.8	104.4
67.5°	124.7	120.6	115.2	108.4	108.4	104.4	100.3	96.2	92.2	88.1	84.0
70°	105.7	101.7	96.2	90.8	89.5	86.8	82.7	77.3	74.6	69.1	65.1
72.5°	88.1	84.0	78.6	73.2	71.8	69.1	65.1	59.6	55.6	51.5	47.4
75°	71.8	67.8	62.4	58.3	56.9	54.2	50.2	44.7	40.7	38.0	33.9
77.5°	56.9	52.9	48.8	44.7	43.4	40.7	36.6	33.9	29.8	27.1	23.0
80°	43.4	40.7	36.6	33.9	32.5	29.8	27.1	23.0	20.3	17.6	16.3
82.5°	31.2	28.5	25.8	21.7	21.7	19.0	17.6	14.9	12.2	10.8	9.5
85°	17.6	14.9	13.6	12.2	10.8	10.8	9.5	8.1	6.8	5.4	5.4
87.5°	5.4	5.4	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7	2.7
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°	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0
2.5°	969.2	970.6	967.8	970.6	967.8	969.2	966.5	969.2	966.5	969.2	963.8
5°	959.7	959.7	955.6	958.4	955.6	957.0	951.6	952.9	950.2	952.9	947.5
7.5°	943.4	944.8	938.0	940.7	936.7	936.7	932.6	934.0	929.9	931.2	927.2
10°	924.5	923.1	916.3	919.0	913.6	913.6	909.6	909.6	904.1	905.5	900.1
12.5°	897.4	896.0	887.9	890.6	885.2	885.2	881.1	881.1	875.7	878.4	873.0
15°	866.2	864.8	856.7	858.0	852.6	852.6	847.2	848.6	844.5	847.2	841.8
17.5°	830.9	829.6	821.4	822.8	816.0	817.4	813.3	812.0	809.2	810.6	806.5
20°	794.3	791.6	783.5	784.8	782.1	778.1	775.4	776.7	774.0	776.7	772.6
22.5°	756.4	751.0	744.2	744.2	741.5	741.5	737.4	740.1	734.7	738.8	736.0
25°	713.0	708.9	703.5	706.2	700.8	700.8	696.7	698.1	695.4	698.1	695.4
27.5°	671.0	668.3	660.1	662.9	658.8	660.1	656.1	657.4	656.1	658.8	656.1
30°	626.3	624.9	619.5	619.5	618.1	616.8	615.4	615.4	614.1	618.1	615.4
32.5°	584.2	580.2	574.7	578.8	572.0	576.1	573.4	576.1	573.4	576.1	574.7
35°	540.9	539.5	532.7	534.1	532.7	532.7	531.4	531.4	531.4	535.4	535.4
37.5°	494.8	493.4	489.3	490.7	488.0	486.6	486.6	489.3	489.3	492.1	492.1
40°	450.0	451.4	447.3	447.3	446.0	446.0	446.0	448.7	447.3	450.0	448.7
42.5°	405.3	405.3	401.2	402.6	401.2	402.6	402.6	405.3	405.3	406.7	405.3
45°	363.3	363.3	361.9	363.3	360.6	361.9	360.6	363.3	361.9	363.3	363.3
47.5°	321.3	321.3	321.3	319.9	319.9	319.9	319.9	319.9	318.5	321.3	319.9
50°	281.9	283.3	281.9	281.9	280.6	281.9	280.6	280.6	277.9	279.2	279.2
52.5°	246.7	246.7	244.0	244.0	244.0	242.6	242.6	242.6	241.3	241.3	238.6
55°	212.8	212.8	210.1	210.1	208.8	207.4	206.0	206.0	202.0	202.0	197.9
57.5°	181.6	180.3	176.2	176.2	173.5	172.2	170.8	169.4	166.7	164.0	162.7
60°	153.2	150.5	147.8	146.4	143.7	141.0	138.3	135.6	132.8	131.5	130.1
62.5°	126.1	122.0	119.3	117.9	115.2	111.2	108.4	105.7	103.0	101.7	99.0
65°	101.7	97.6	93.5	92.2	89.5	86.8	82.7	80.0	77.3	75.9	75.9
67.5°	80.0	75.9	70.5	70.5	67.8	65.1	62.4	59.6	58.3	59.6	59.6
70°	59.6	56.9	52.9	51.5	48.8	46.1	44.7	44.7	44.7	46.1	44.7
72.5°	44.7	40.7	38.0	36.6	35.2	33.9	33.9	33.9	32.5	33.9	33.9
75°	31.2	28.5	25.8	25.8	24.4	24.4	24.4	24.4	24.4	24.4	24.4
77.5°	21.7	19.0	17.6	17.6	17.6	16.3	16.3	16.3	16.3	16.3	16.3
80°	13.6	13.6	12.2	12.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8
82.5°	8.1	8.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	4.1	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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: P252467

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	976.0	976.0	976.0	976.0	976.0	976.0	976.0	976.0
2.5°	963.8	967.8	962.4	966.5	965.1	963.8	961.1	966.5
5°	947.5	948.9	943.4	948.9	947.5	944.8	942.1	947.5
7.5°	924.5	928.5	921.8	927.2	925.8	923.1	920.4	925.8
10°	898.7	902.8	897.4	901.4	901.4	898.7	894.6	900.1
12.5°	870.2	873.0	867.5	873.0	871.6	868.9	867.5	871.6
15°	839.1	843.1	837.7	841.8	840.4	839.1	837.7	841.8
17.5°	805.2	809.2	805.2	809.2	809.2	805.2	803.8	806.5
20°	771.3	774.0	769.9	774.0	772.6	772.6	769.9	774.0
22.5°	733.3	737.4	734.7	737.4	736.0	736.0	734.7	737.4
25°	695.4	699.4	695.4	699.4	698.1	698.1	695.4	702.2
27.5°	657.4	660.1	656.1	661.5	660.1	657.4	658.8	660.1
30°	616.8	619.5	616.8	620.8	620.8	620.8	618.1	620.8
32.5°	576.1	580.2	576.1	580.2	578.8	578.8	577.5	580.2
35°	535.4	536.8	534.1	538.1	538.1	539.5	536.8	540.9
37.5°	493.4	494.8	493.4	494.8	497.5	493.4	496.1	497.5
40°	450.0	452.7	451.4	452.7	452.7	454.1	452.7	454.1
42.5°	406.7	409.4	406.7	410.7	409.4	409.4	410.7	410.7
45°	361.9	366.0	363.3	366.0	367.3	366.0	366.0	368.7
47.5°	319.9	322.6	321.3	322.6	322.6	322.6	322.6	325.3
50°	277.9	279.2	279.2	280.6	280.6	281.9	279.2	280.6
52.5°	235.9	238.6	238.6	238.6	237.2	238.6	238.6	238.6
55°	197.9	199.3	196.6	199.3	199.3	197.9	197.9	200.6
57.5°	161.3	161.3	161.3	161.3	161.3	160.0	161.3	161.3
60°	127.4	128.8	127.4	127.4	127.4	127.4	126.1	128.8
62.5°	99.0	99.0	97.6	99.0	99.0	99.0	100.3	100.3
65°	77.3	78.6	77.3	78.6	78.6	78.6	78.6	80.0
67.5°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
70°	46.1	46.1	46.1	47.4	46.1	46.1	46.1	47.4
72.5°	33.9	33.9	33.9	33.9	33.9	33.9	35.2	35.2
75°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
77.5°	16.3	16.3	16.3	17.6	16.3	17.6	16.3	16.3
80°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4
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)