

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P844170

Luminaire Tested: **LD6C20DE010B50 EU6C20B50 6LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20DE010B50 EU6C20B50 6LBLWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

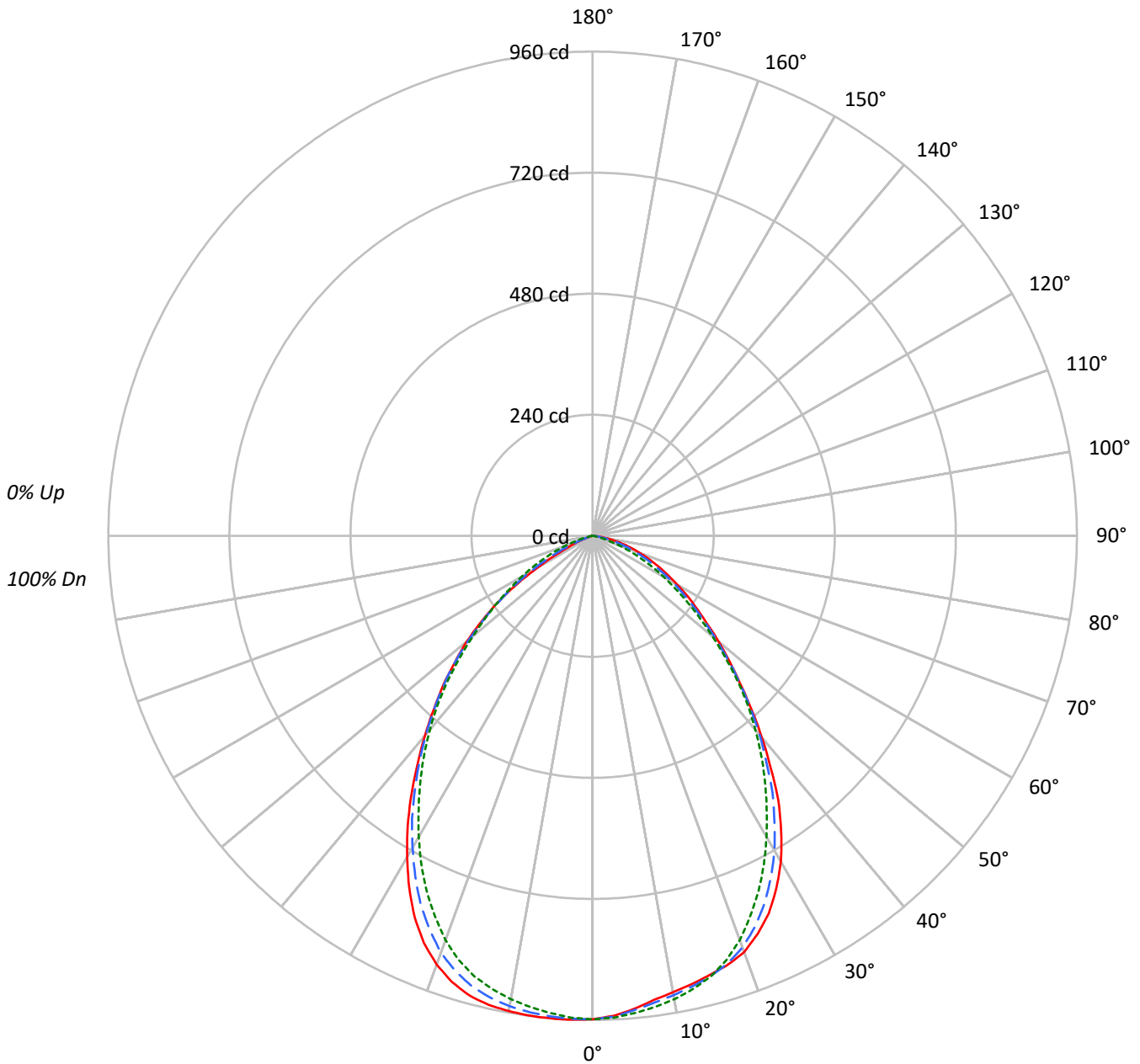
Lumens per Lamp: N/A
Luminaire Lumens: 1763.1 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
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					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								
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54								
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44								
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40								
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52551	52551	52551
5°	51827	52284	52856
10°	51146	51936	53278
15°	51118	51334	53559
20°	51239	49757	52750
25°	49975	47047	50477
30°	47254	43627	46551
35°	42965	39846	41921
40°	37349	35874	37012
45°	32019	31453	32461
50°	27760	26362	27684
55°	24095	21916	21791
60°	21215	17740	13793
65°	18601	13477	6615
70°	15980	8928	2436
75°	13005	3770	678
80°	8808	916	316
85°	3585	189	189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	5.1
10°-20°	257.2	14.6
20°-30°	368.6	20.9
30°-40°	384.1	21.8
40°-50°	318.2	18.0
50°-60°	210.9	12.0
60°-70°	102.1	5.8
70°-80°	28.9	1.6
80°-90°	2.8	0.2
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°	716.0	40.6
0°-40°	1100.1	62.4
0°-60°	1629.2	92.4
0°-90°	1763.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	959	959	959	959	959	
5°	942	944	950	957	960	89
15°	901	904	904	925	944	255
25°	826	805	778	806	834	378
35°	642	622	595	614	626	398
45°	413	412	406	416	419	321
55°	252	244	229	225	228	228
65°	143	130	104	71	51	143
75°	61	47	18	4	3	66
85°	6	2	0	0	0	9
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°	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6
2.5°	952.6	952.9	953.6	952.9	953.2	953.6	953.6	953.9	953.9	954.2	954.5
5°	941.8	942.8	942.8	942.8	942.8	943.1	943.4	943.4	943.1	943.1	944.4
7.5°	928.3	929.2	928.9	929.2	929.6	930.5	930.2	930.8	931.5	932.4	933.7
10°	918.8	919.1	918.8	919.7	920.4	921.0	921.0	921.6	922.3	923.2	924.8
12.5°	910.2	910.5	910.8	911.5	912.1	911.8	912.4	913.1	913.4	914.0	915.0
15°	900.7	902.3	902.0	902.3	902.6	902.9	903.2	903.5	903.2	903.2	903.9
17.5°	891.8	892.1	892.4	892.4	892.4	892.4	891.8	891.8	890.8	889.9	889.3
20°	878.3	877.9	877.3	877.3	876.0	876.4	875.1	874.5	872.9	870.6	868.4
22.5°	854.5	856.0	855.4	853.2	851.9	851.9	850.7	847.8	845.3	842.7	839.9
25°	826.2	825.6	824.6	823.5	821.6	820.3	818.4	816.5	812.4	807.9	805.4
27.5°	788.6	789.5	787.3	785.4	784.4	782.5	780.6	778.1	773.0	769.2	764.9
30°	746.5	745.8	745.5	743.0	740.4	741.1	737.3	734.4	730.6	724.3	720.8
32.5°	695.8	696.8	694.9	694.5	689.8	689.2	689.2	684.7	681.5	675.5	670.8
35°	642.0	641.3	640.7	638.5	638.2	636.3	634.7	631.5	627.4	625.5	621.7
37.5°	579.9	580.2	580.5	580.5	579.3	578.0	576.7	576.7	571.0	570.1	565.6
40°	521.9	522.9	522.6	520.4	520.7	521.0	520.7	520.4	516.9	515.6	515.0
42.5°	465.6	467.2	465.6	465.3	465.6	465.6	464.9	465.9	464.3	465.6	462.7
45°	413.0	414.3	413.3	413.0	412.4	414.0	412.1	413.6	412.7	411.1	411.7
47.5°	367.7	366.5	367.7	367.1	366.2	364.9	366.8	365.8	363.6	363.3	363.9
50°	325.5	324.9	325.5	325.2	323.6	323.6	323.3	322.7	322.0	320.1	318.9
52.5°	285.3	287.6	286.0	287.6	285.3	284.4	284.7	283.8	282.5	281.9	279.3
55°	252.1	252.5	252.5	252.5	251.2	250.6	249.9	249.3	249.3	246.4	243.9
57.5°	223.3	222.6	222.3	221.4	220.7	220.1	219.5	217.6	215.7	213.1	211.2
60°	193.5	194.2	194.2	192.9	192.0	191.0	190.7	189.4	187.2	184.7	181.8
62.5°	167.8	168.5	166.9	166.9	165.0	164.7	164.7	162.8	160.2	157.4	154.2
65°	143.4	143.1	143.7	141.6	141.9	140.0	139.4	138.4	135.9	132.4	129.6
67.5°	120.4	121.0	120.0	119.4	118.1	117.5	116.9	114.0	112.7	109.6	106.4
70°	99.7	99.1	98.5	98.5	97.2	96.2	95.9	92.8	91.2	88.6	85.2
72.5°	80.5	79.9	79.2	78.3	77.3	77.0	75.1	73.2	71.3	68.1	65.6
75°	61.4	61.1	60.5	59.9	58.3	57.6	57.3	55.1	51.6	49.1	46.9
77.5°	44.3	44.6	43.4	42.1	41.1	40.2	39.6	37.7	35.4	32.6	30.4
80°	27.9	28.2	27.9	27.0	25.7	25.4	24.4	23.2	21.3	19.4	17.8
82.5°	14.9	14.9	14.6	14.3	13.3	13.3	12.7	11.7	10.8	9.8	8.6
85°	5.7	5.7	5.4	5.1	4.8	4.8	4.4	4.1	3.5	3.2	2.5
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6
2.5°	954.5	954.8	955.1	955.5	955.5	955.5	955.8	956.1	956.1	956.4	956.7
5°	945.0	945.3	946.3	946.6	947.2	946.9	947.9	948.8	949.4	950.1	951.0
7.5°	934.3	935.3	936.5	937.5	937.8	938.0	939.0	940.2	941.2	942.5	943.4
10°	925.4	926.4	927.7	928.9	928.9	929.6	930.2	931.1	932.1	933.0	934.3
12.5°	915.6	916.9	917.2	917.8	917.8	918.1	918.8	919.1	920.0	920.4	922.3
15°	903.9	903.9	903.9	903.9	903.9	903.5	902.9	903.5	903.5	904.5	905.4
17.5°	887.7	887.7	885.8	884.8	885.1	883.5	883.2	882.0	882.0	882.0	882.9
20°	866.5	863.7	861.4	858.6	857.3	856.7	856.0	853.2	852.9	852.9	852.9
22.5°	836.4	833.2	830.0	827.8	824.3	823.2	821.9	820.0	817.8	816.5	819.3
25°	799.7	795.9	792.1	787.6	786.7	785.1	781.9	780.0	779.1	777.8	778.4
27.5°	760.8	755.4	751.2	746.8	745.2	743.3	740.4	737.6	734.4	735.1	735.1
30°	716.0	709.8	705.3	699.9	699.6	697.7	695.2	691.7	689.2	689.2	690.7
32.5°	667.6	663.1	659.0	653.1	652.1	650.9	649.0	645.8	643.9	642.0	643.3
35°	618.5	611.5	608.7	604.9	605.2	601.7	598.8	596.9	597.2	595.4	596.4
37.5°	565.6	561.5	557.4	555.8	554.2	552.3	551.0	549.8	549.1	549.1	548.5
40°	512.1	509.9	508.0	507.3	504.5	505.1	504.8	503.9	502.0	501.3	503.2
42.5°	461.8	459.5	458.6	457.0	456.7	455.7	455.7	454.8	454.5	454.8	454.5
45°	409.8	409.5	407.3	407.3	408.6	407.6	405.1	406.7	406.7	405.7	407.6
47.5°	362.0	362.3	361.1	358.5	358.5	357.0	355.0	356.6	357.6	356.0	357.0
50°	318.6	316.7	314.1	312.3	313.2	312.6	311.1	309.8	308.8	309.1	310.4
52.5°	277.4	276.5	273.6	271.4	270.8	271.1	269.2	267.3	267.6	267.3	266.6
55°	240.4	240.4	236.6	235.6	233.1	233.1	230.6	230.2	229.3	229.3	227.7
57.5°	208.4	205.5	203.3	201.1	200.1	198.9	198.0	195.8	194.8	192.9	192.6
60°	179.0	175.5	173.9	171.3	169.4	168.2	166.6	164.7	163.4	161.8	159.9
62.5°	152.6	148.8	145.6	143.1	141.6	141.3	138.8	136.5	134.0	132.1	128.9
65°	126.4	124.2	120.7	117.2	116.6	115.0	112.4	109.9	106.7	103.9	102.0
67.5°	103.2	100.4	97.2	95.3	93.1	91.8	88.9	85.2	81.8	78.9	75.4
70°	82.7	78.6	75.7	72.6	71.9	69.1	66.5	62.7	59.5	55.7	50.7
72.5°	62.1	58.0	55.7	52.6	50.7	49.1	45.6	42.1	37.0	34.2	29.7
75°	43.7	40.2	37.0	33.8	32.6	30.4	27.6	23.8	20.6	17.8	14.6
77.5°	27.3	25.1	22.2	19.7	18.4	17.1	14.9	12.1	9.8	7.6	5.7
80°	15.5	13.6	11.7	9.8	9.2	8.6	6.7	5.1	4.1	2.9	1.9
82.5°	7.3	6.0	5.1	4.1	3.8	3.2	2.2	1.6	1.0	0.6	0.3
85°	2.2	1.6	1.3	1.0	0.6	0.6	0.3	0.3	0.3	0.3	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6
2.5°	956.7	957.1	957.4	957.4	957.4	957.7	957.7	958.3	958.6	959.0	959.0
5°	951.7	952.6	953.2	953.6	953.9	954.8	955.1	956.1	956.7	957.4	958.0
7.5°	944.7	945.6	946.9	947.5	948.2	949.4	950.4	952.0	952.9	954.2	955.5
10°	935.9	937.2	939.0	939.6	940.2	941.8	943.7	945.6	947.2	949.1	950.7
12.5°	922.9	924.8	927.0	927.7	928.6	930.8	933.0	935.9	938.0	940.6	943.1
15°	906.7	909.2	910.8	911.5	912.7	915.9	918.1	921.3	924.8	928.6	931.5
17.5°	884.2	885.5	888.3	889.6	891.2	894.3	897.8	901.6	904.8	908.9	913.4
20°	854.8	856.7	860.2	861.4	863.3	866.2	871.3	874.5	879.5	884.5	887.7
22.5°	818.1	821.6	825.0	826.5	827.8	831.3	834.8	840.2	844.3	851.3	855.4
25°	780.0	781.0	783.8	786.7	787.3	791.7	795.9	802.2	806.3	810.8	816.5
27.5°	736.3	737.6	742.0	742.7	743.0	747.7	752.5	757.6	761.1	766.1	768.9
30°	690.7	693.0	694.9	696.1	698.4	700.6	705.0	711.3	713.8	718.2	722.0
32.5°	644.2	644.2	648.6	649.0	650.2	655.2	657.7	661.5	666.0	669.5	669.2
35°	597.9	599.1	600.7	603.0	603.9	607.1	608.0	610.9	613.7	616.3	619.5
37.5°	550.1	550.1	553.6	555.2	556.1	557.7	559.3	562.1	563.7	564.7	566.6
40°	504.5	505.8	506.4	507.0	507.0	509.3	510.5	512.7	513.7	516.2	515.0
42.5°	458.3	457.6	458.0	459.5	459.9	461.1	462.1	463.3	464.6	464.0	466.2
45°	409.2	409.5	410.2	410.2	411.1	412.7	414.3	414.9	415.9	417.4	417.8
47.5°	357.9	359.5	358.5	361.1	361.7	362.0	365.8	366.2	369.3	369.9	369.9
50°	310.1	310.1	312.0	312.8	313.5	314.4	315.7	317.0	317.9	320.1	320.8
52.5°	266.9	267.6	267.6	266.6	267.6	267.6	270.8	271.1	270.8	271.4	272.3
55°	228.3	228.7	226.8	228.0	227.7	226.8	227.4	225.5	225.2	226.1	225.5
57.5°	191.3	190.1	189.7	188.2	188.2	186.6	185.0	185.0	183.7	181.5	181.2
60°	158.0	156.1	154.8	153.9	151.3	149.8	147.5	145.6	143.1	140.3	138.8
62.5°	126.7	124.5	121.9	120.7	118.8	115.0	112.1	109.3	105.1	102.6	100.1
65°	98.8	95.3	91.2	89.3	87.4	84.0	80.2	75.4	71.3	67.8	63.4
67.5°	71.6	67.8	63.7	60.8	58.9	54.8	50.3	46.2	41.5	37.7	35.4
70°	46.9	42.1	38.3	36.1	34.2	30.0	26.0	22.5	20.3	19.4	19.0
72.5°	26.7	21.9	19.0	16.8	15.2	12.4	10.2	8.9	8.2	7.9	7.3
75°	11.4	8.6	6.7	5.4	4.8	3.8	3.5	3.5	3.5	3.2	3.2
77.5°	4.1	2.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	958.6	958.6	958.6	958.6	958.6	958.6	958.6	958.6
2.5°	959.3	959.9	959.9	960.2	960.5	960.5	960.5	960.5
5°	958.6	959.3	959.6	959.9	960.2	960.5	960.5	960.5
7.5°	956.1	957.4	957.7	958.3	959.0	959.3	959.3	959.6
10°	952.3	953.6	954.5	955.1	955.8	956.4	957.1	957.1
12.5°	945.3	947.2	948.5	949.1	950.7	951.3	952.0	952.6
15°	934.0	936.5	938.0	939.3	940.6	942.5	942.8	943.7
17.5°	916.9	920.4	921.0	922.9	924.5	927.7	927.3	927.7
20°	892.1	895.9	897.2	899.1	901.6	903.9	905.8	904.2
22.5°	859.2	863.7	865.6	867.5	869.1	871.0	873.5	873.8
25°	820.3	824.1	825.6	826.9	830.0	831.6	834.2	834.5
27.5°	775.6	777.8	780.0	780.6	784.1	785.1	787.3	787.3
30°	724.9	727.4	730.0	730.9	731.9	732.8	734.4	735.4
32.5°	673.0	675.5	676.5	678.0	678.4	680.0	679.3	681.9
35°	621.0	621.7	622.6	622.3	624.5	624.2	626.8	626.4
37.5°	568.8	568.2	569.7	571.3	570.7	570.1	571.0	569.4
40°	516.5	516.9	517.2	518.8	517.2	518.1	517.5	517.2
42.5°	467.8	467.8	465.9	467.8	466.5	465.9	467.2	465.3
45°	418.4	418.1	418.4	418.7	418.7	418.7	417.4	418.7
47.5°	371.4	371.8	370.5	372.7	372.1	370.8	370.8	369.9
50°	321.7	323.6	325.9	324.0	325.5	324.6	323.6	324.6
52.5°	274.6	275.8	274.2	274.6	278.1	278.1	276.1	275.8
55°	224.2	224.2	224.9	225.2	225.5	229.6	227.4	228.0
57.5°	179.3	179.3	178.3	180.2	179.0	177.4	179.0	174.8
60°	136.2	135.9	135.0	133.7	130.5	129.6	126.1	125.8
62.5°	96.9	93.4	92.1	89.6	86.1	85.2	81.8	81.4
65°	60.2	56.1	54.8	53.5	51.9	51.6	50.3	51.0
67.5°	34.2	33.5	33.2	32.3	31.6	31.0	31.0	30.7
70°	18.1	16.8	16.5	16.2	16.2	14.9	14.6	15.2
72.5°	7.0	6.3	6.3	6.3	6.0	6.0	6.0	6.0
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3
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)