

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: P844169

Luminaire Tested: **LD6C20DE010B50 EU6C20B50 6LBLWWH**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20DE010B50 EU6C20B50 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

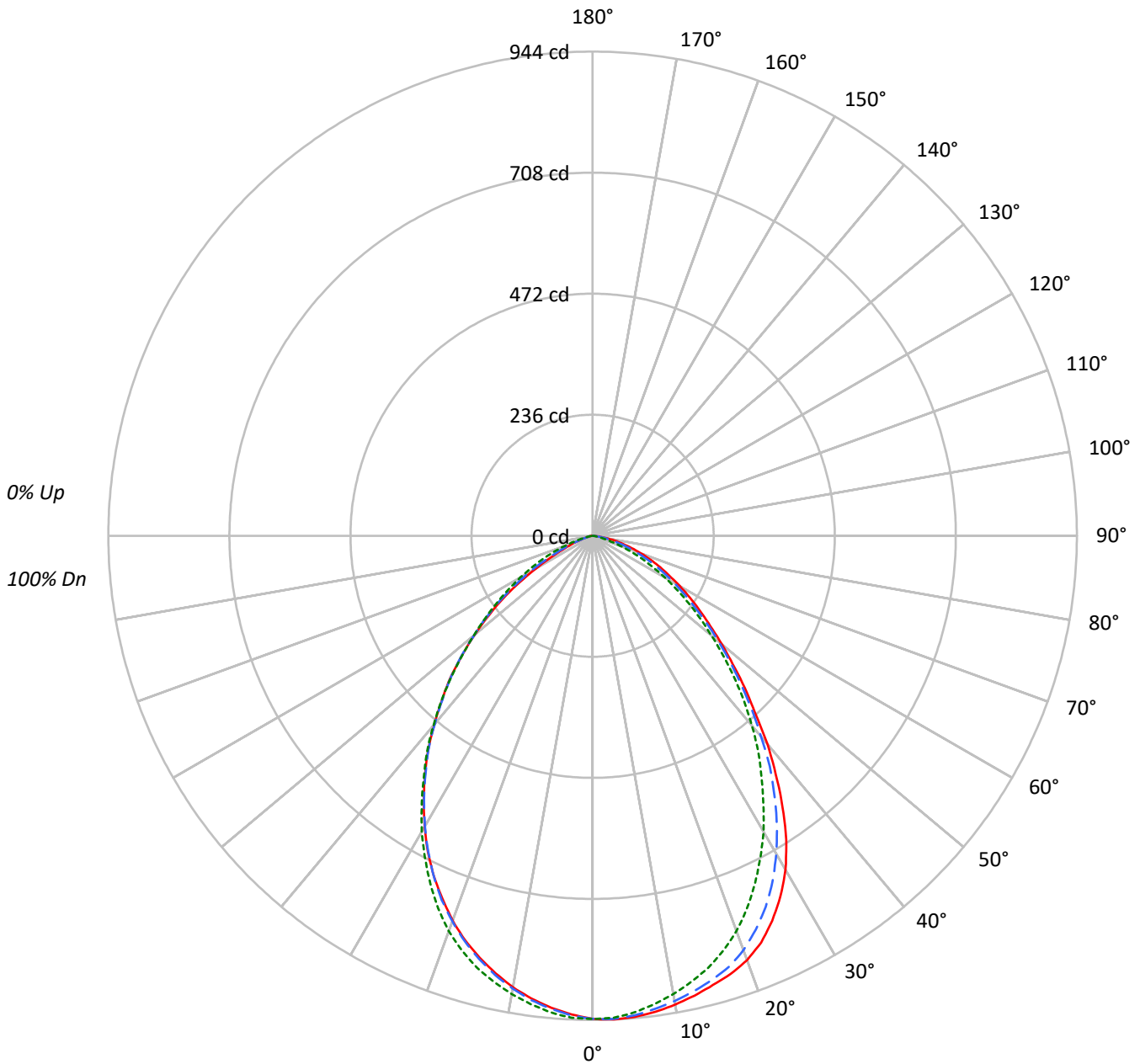
Lumens per Lamp: N/A
Luminaire Lumens: 1713.4 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78				78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60				60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43				43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39				39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51635	51635	51635
5°	51816	51343	50842
10°	51658	50511	49771
15°	51465	49472	48320
20°	51349	47843	46566
25°	50096	45275	44277
30°	47602	42171	41468
35°	43206	38400	38146
40°	37907	34550	34372
45°	32499	30189	30437
50°	27973	25730	25603
55°	24448	21724	20396
60°	21490	17817	13913
65°	18809	13802	8380
70°	16044	9296	4921
75°	12942	4829	2690
80°	8997	1894	1515
85°	3585	629	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	5.2
10°-20°	246.5	14.4
20°-30°	350.7	20.5
30°-40°	369.1	21.5
40°-50°	307.6	18.0
50°-60°	207.8	12.1
60°-70°	105.4	6.2
70°-80°	34.0	2.0
80°-90°	3.9	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°	685.4	40.0
0°-40°	1054.6	61.6
0°-60°	1570.1	91.6
0°-90°	1713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	942	939	933	926	924	89
15°	907	897	872	854	851	256
25°	828	798	748	733	732	380
35°	646	618	574	568	570	402
45°	419	408	389	391	393	324
55°	256	244	227	220	213	230
65°	145	131	106	77	65	144
75°	61	48	23	12	13	66
85°	6	3	1	1	1	10
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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	944.1	944.1	944.1	944.1	944.1	944.1	943.8	943.8	943.2	943.2	942.9
5°	941.6	941.9	941.9	941.6	941.6	941.0	941.0	940.7	939.7	939.1	938.8
7.5°	936.2	936.2	935.9	935.6	935.3	934.3	934.0	933.0	932.4	931.8	930.5
10°	928.0	928.0	927.7	927.0	926.7	926.1	926.1	924.8	923.6	922.0	921.1
12.5°	918.2	918.6	917.9	917.6	916.7	916.3	915.7	914.1	913.2	911.3	909.7
15°	906.8	907.4	907.4	906.2	905.2	904.9	904.0	903.0	900.8	898.9	897.0
17.5°	895.7	896.3	895.7	894.8	893.8	892.5	891.9	890.0	887.1	884.6	881.7
20°	880.2	881.1	879.8	878.3	876.4	876.0	875.1	872.0	867.9	864.1	860.0
22.5°	858.4	857.7	856.8	856.2	853.0	851.1	849.8	845.7	841.2	836.2	831.1
25°	828.2	829.5	827.6	824.7	823.3	821.4	818.2	813.7	809.6	804.2	798.2
27.5°	792.8	792.8	790.3	789.3	785.8	783.3	781.7	777.3	772.0	766.6	759.9
30°	752.0	750.1	750.1	745.6	742.8	741.8	740.2	732.9	728.2	722.6	715.9
32.5°	702.6	702.3	701.0	698.1	694.3	691.2	691.2	686.1	679.7	672.9	668.7
35°	645.6	645.9	645.3	642.1	642.1	638.3	637.6	633.2	628.1	622.8	617.8
37.5°	586.7	587.9	586.7	585.1	584.1	583.8	581.0	577.8	574.1	570.9	567.1
40°	529.7	527.8	528.4	525.2	525.5	524.9	523.7	519.6	517.4	514.2	510.1
42.5°	468.3	470.2	470.9	469.0	468.3	467.1	468.3	466.7	464.2	462.6	458.8
45°	419.2	417.3	418.3	417.7	418.0	415.4	414.5	413.9	412.9	410.0	408.5
47.5°	370.5	370.8	370.5	369.2	368.6	368.6	367.3	365.4	365.4	363.5	362.2
50°	328.0	328.0	328.6	327.0	326.4	325.1	325.4	323.6	322.4	320.8	319.8
52.5°	289.1	289.4	288.1	288.4	287.8	287.8	286.5	285.2	284.0	281.1	280.5
55°	255.8	256.2	254.6	255.2	253.3	252.4	251.7	249.8	249.8	247.0	243.5
57.5°	224.9	224.5	224.2	223.3	222.0	221.0	220.1	217.9	216.9	215.0	212.2
60°	196.0	195.7	195.0	194.7	193.8	191.5	191.5	190.0	186.8	184.9	182.0
62.5°	168.8	168.8	168.5	167.5	166.6	165.6	165.0	163.7	160.5	158.3	155.8
65°	145.0	144.7	143.7	142.1	141.5	141.5	139.3	138.3	135.8	133.6	130.7
67.5°	122.3	121.0	120.4	120.7	118.8	118.8	116.9	115.3	113.1	109.3	107.0
70°	100.1	99.4	98.8	98.1	97.8	96.6	95.6	93.7	91.5	88.6	85.1
72.5°	80.1	80.1	79.1	78.5	77.5	76.3	75.6	74.1	71.6	68.4	65.9
75°	61.1	61.1	61.1	59.9	59.2	58.6	56.7	55.7	52.9	51.0	47.8
77.5°	44.9	44.3	43.4	43.0	42.4	41.8	40.8	39.2	36.7	34.5	32.6
80°	28.5	29.4	28.5	28.5	26.9	26.2	25.9	24.1	23.2	21.3	19.7
82.5°	15.9	16.2	15.5	15.2	14.3	14.0	14.0	12.7	12.1	10.8	9.8
85°	5.7	6.0	5.7	5.7	5.1	5.4	5.1	4.8	4.1	3.5	3.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	942.9	942.2	942.2	941.9	941.6	941.6	941.6	941.3	940.7	940.7	940.3
5°	938.1	937.5	936.5	935.9	935.6	935.3	934.9	934.6	933.4	933.0	932.1
7.5°	929.6	928.9	927.3	926.7	925.7	925.4	924.3	923.6	922.4	921.1	920.5
10°	919.5	917.9	916.7	915.1	914.4	913.5	911.9	910.0	909.0	907.4	906.2
12.5°	908.1	906.2	903.6	901.7	901.1	899.5	897.0	895.4	893.2	890.6	888.4
15°	893.8	891.6	889.4	885.9	884.9	883.0	880.5	877.3	874.2	871.7	869.2
17.5°	878.3	874.8	871.4	867.6	864.7	863.8	859.6	855.2	852.3	847.9	845.0
20°	856.5	851.7	846.0	842.2	839.7	836.8	832.0	827.3	823.9	820.1	816.0
22.5°	826.3	822.0	815.3	809.6	807.7	803.6	799.5	795.0	790.6	786.5	781.4
25°	790.9	786.1	779.5	773.9	770.7	768.8	760.9	756.4	752.0	748.5	745.0
27.5°	754.5	745.9	741.5	732.6	729.8	729.1	721.9	717.2	712.4	707.7	703.2
30°	709.6	702.9	696.2	689.9	686.1	683.9	678.5	672.5	669.4	666.2	661.8
32.5°	663.0	657.0	648.8	642.7	639.9	636.7	631.9	627.8	623.2	619.7	618.7
35°	613.3	606.7	599.7	595.2	594.6	590.8	586.0	582.5	579.1	573.8	572.8
37.5°	560.1	556.3	551.6	545.2	542.4	542.4	537.6	535.1	530.6	530.3	527.8
40°	507.9	506.3	499.0	497.1	496.5	492.0	490.7	486.3	483.1	482.8	479.0
42.5°	456.3	452.1	450.9	447.7	444.8	444.2	441.4	439.4	438.2	436.3	434.4
45°	405.0	404.0	400.8	398.6	397.7	396.4	395.4	391.6	391.0	389.4	388.5
47.5°	360.7	358.1	355.3	352.7	352.4	350.5	348.3	348.3	344.8	344.5	343.8
50°	316.7	314.8	313.2	309.7	310.3	307.8	307.5	304.6	303.0	301.7	303.3
52.5°	277.9	274.2	273.6	270.8	269.8	270.1	266.6	265.7	265.0	263.8	263.1
55°	241.2	239.3	236.8	234.9	233.3	231.7	230.5	230.5	227.0	227.3	225.7
57.5°	209.0	207.4	204.2	201.4	200.7	198.8	197.2	195.7	195.3	193.1	191.5
60°	180.1	177.3	173.2	172.0	170.1	168.5	166.9	165.0	164.0	162.5	159.6
62.5°	153.3	148.5	146.9	144.4	142.1	141.2	138.7	136.4	134.8	132.6	130.4
65°	127.6	124.2	121.3	118.5	118.1	115.6	113.4	111.5	108.3	106.4	102.3
67.5°	104.2	101.0	97.8	95.0	92.8	92.1	88.6	86.4	84.2	80.4	76.9
70°	82.6	79.4	76.9	73.5	72.6	70.0	67.5	65.3	61.4	58.0	55.1
72.5°	63.0	59.5	56.7	54.2	52.6	50.3	47.8	45.3	41.5	38.0	35.4
75°	44.9	42.4	39.6	37.0	35.7	34.5	31.6	28.8	26.2	22.8	20.6
77.5°	30.4	27.8	25.3	23.2	21.6	20.6	18.7	16.5	14.3	12.4	10.8
80°	17.8	16.2	14.3	12.4	12.1	11.1	9.5	8.2	7.0	6.0	4.8
82.5°	8.6	7.6	6.3	5.4	4.8	4.4	3.8	3.2	2.5	2.2	2.2
85°	2.5	2.2	1.9	1.6	1.3	1.3	1.0	1.0	1.0	1.0	1.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	939.4	939.1	938.8	938.4	937.8	937.8	936.9	936.2	936.2	935.6	935.3
5°	931.1	930.2	929.9	929.2	928.6	928.3	927.0	926.7	926.1	925.4	925.4
7.5°	919.5	918.2	917.0	916.3	916.0	915.1	914.4	914.1	913.2	912.5	911.3
10°	904.0	903.0	901.4	900.8	900.2	899.5	897.9	897.0	896.7	896.0	895.4
12.5°	885.9	884.6	883.0	881.7	881.1	880.2	878.6	877.6	877.6	876.4	876.4
15°	866.6	864.7	861.9	860.6	860.3	858.4	857.1	855.8	854.3	853.6	853.6
17.5°	841.9	838.7	836.2	836.2	834.9	833.0	831.1	830.1	829.2	827.9	827.3
20°	812.8	810.6	807.7	807.7	804.9	804.2	802.3	802.0	799.8	800.1	799.1
22.5°	777.6	776.3	774.7	773.6	772.0	770.1	769.1	769.4	768.5	768.2	767.8
25°	742.1	738.7	736.7	736.1	735.5	733.9	733.3	732.9	732.9	732.0	732.3
27.5°	701.3	698.8	696.2	697.2	695.9	695.0	694.3	693.4	694.0	693.7	694.0
30°	659.5	656.4	654.8	655.4	655.1	652.6	653.8	653.5	653.8	653.8	654.5
32.5°	615.5	613.3	613.0	613.3	610.5	610.8	609.5	611.4	611.7	613.6	612.1
35°	570.9	569.6	567.4	567.1	567.4	567.1	567.1	568.4	568.1	570.0	569.3
37.5°	524.9	524.4	522.2	522.8	521.5	523.7	524.4	523.7	525.9	525.2	524.9
40°	480.0	479.0	477.7	480.3	478.7	477.4	479.6	477.7	478.4	480.3	480.3
42.5°	434.4	432.8	432.8	432.8	432.5	432.5	433.4	434.4	433.7	434.1	436.6
45°	388.5	388.2	387.2	387.8	387.5	389.1	389.1	389.7	391.0	392.3	391.6
47.5°	344.2	343.5	344.5	343.8	344.2	343.2	343.8	345.7	347.3	345.1	347.3
50°	302.7	301.4	301.1	302.1	301.7	301.4	302.1	302.1	301.4	301.4	303.6
52.5°	263.1	261.9	260.9	262.5	261.6	261.9	260.6	260.6	261.2	260.6	259.6
55°	226.0	225.1	223.9	224.5	222.9	222.6	221.4	221.4	220.4	219.8	217.9
57.5°	190.6	190.0	187.1	186.8	187.1	184.9	182.7	181.7	179.2	178.5	178.2
60°	159.3	155.8	154.2	152.3	151.0	150.1	147.5	146.0	142.1	139.9	139.6
62.5°	126.6	125.0	123.2	120.4	119.7	116.6	114.0	109.9	108.0	105.1	102.3
65°	100.4	96.2	93.4	91.8	89.3	86.4	83.6	79.1	76.9	73.5	70.6
67.5°	73.5	70.0	66.2	64.9	62.7	59.2	56.4	52.6	50.7	47.5	46.5
70°	50.3	47.2	44.3	42.4	40.8	37.3	34.5	33.2	31.3	30.7	30.7
72.5°	32.3	29.4	26.2	25.3	24.1	22.2	20.3	19.7	20.3	20.0	20.0
75°	18.1	16.5	14.3	13.3	13.3	12.7	12.4	12.4	12.4	12.4	12.4
77.5°	9.2	8.2	7.6	7.3	7.3	7.3	7.6	7.6	7.6	7.9	7.6
80°	4.4	4.1	4.1	4.1	4.4	4.4	4.4	4.4	4.4	4.8	4.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
85°	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	934.9	934.3	934.3	934.0	934.0	934.0	934.0	934.3
5°	924.8	924.5	924.5	923.9	923.9	923.9	923.9	923.9
7.5°	911.3	910.6	910.9	910.3	910.3	910.6	910.3	910.0
10°	894.4	894.1	894.4	894.4	893.8	893.5	893.8	894.1
12.5°	875.4	875.1	874.5	874.8	874.8	874.5	874.2	873.6
15°	853.3	853.0	852.7	852.3	852.0	852.3	852.0	851.4
17.5°	827.3	827.3	827.0	826.6	826.3	825.7	826.0	827.0
20°	799.5	799.1	798.5	798.8	797.6	796.9	797.2	798.2
22.5°	767.5	766.6	767.2	766.3	766.3	766.6	766.3	765.6
25°	732.6	731.4	732.0	732.3	732.3	732.0	731.7	732.0
27.5°	694.0	695.0	695.0	694.3	695.3	694.0	694.7	695.0
30°	654.5	653.5	653.2	654.5	656.4	654.8	654.8	655.1
32.5°	613.6	612.4	612.4	613.0	612.7	612.7	614.0	612.4
35°	570.0	570.6	568.1	569.6	570.3	569.6	570.0	570.0
37.5°	525.9	525.2	525.2	525.2	526.2	526.2	526.8	526.5
40°	482.5	481.2	480.9	481.5	480.3	481.2	481.2	480.3
42.5°	435.6	436.0	437.5	436.0	436.3	436.0	435.3	435.0
45°	392.3	393.2	392.6	392.3	392.6	391.3	391.6	392.6
47.5°	346.4	348.3	346.4	347.6	347.3	346.7	346.1	344.8
50°	303.3	304.0	303.6	303.3	303.0	302.7	301.1	300.2
52.5°	259.3	259.3	259.3	259.3	256.2	257.7	257.1	255.2
55°	216.3	217.2	216.0	216.0	213.7	213.7	213.1	213.4
57.5°	174.8	173.9	172.9	172.9	170.7	169.8	168.8	167.5
60°	136.1	135.2	133.9	132.3	130.1	130.1	129.5	126.9
62.5°	99.7	98.1	97.2	95.9	94.0	92.8	91.8	92.4
65°	68.4	66.8	65.6	65.6	65.6	64.9	64.6	64.6
67.5°	44.9	45.9	45.3	45.9	45.9	45.3	44.9	45.6
70°	31.0	31.0	30.7	30.7	30.7	30.7	30.4	30.7
72.5°	20.0	20.0	20.0	20.3	20.0	20.0	20.3	20.3
75°	12.7	12.7	12.7	13.0	12.7	12.7	13.0	12.7
77.5°	7.6	7.9	7.9	7.9	7.9	7.6	7.9	7.9
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)