

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: P857288

Luminaire Tested: **LX4C20D010 EX4C209850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C20D010 EX4C209850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

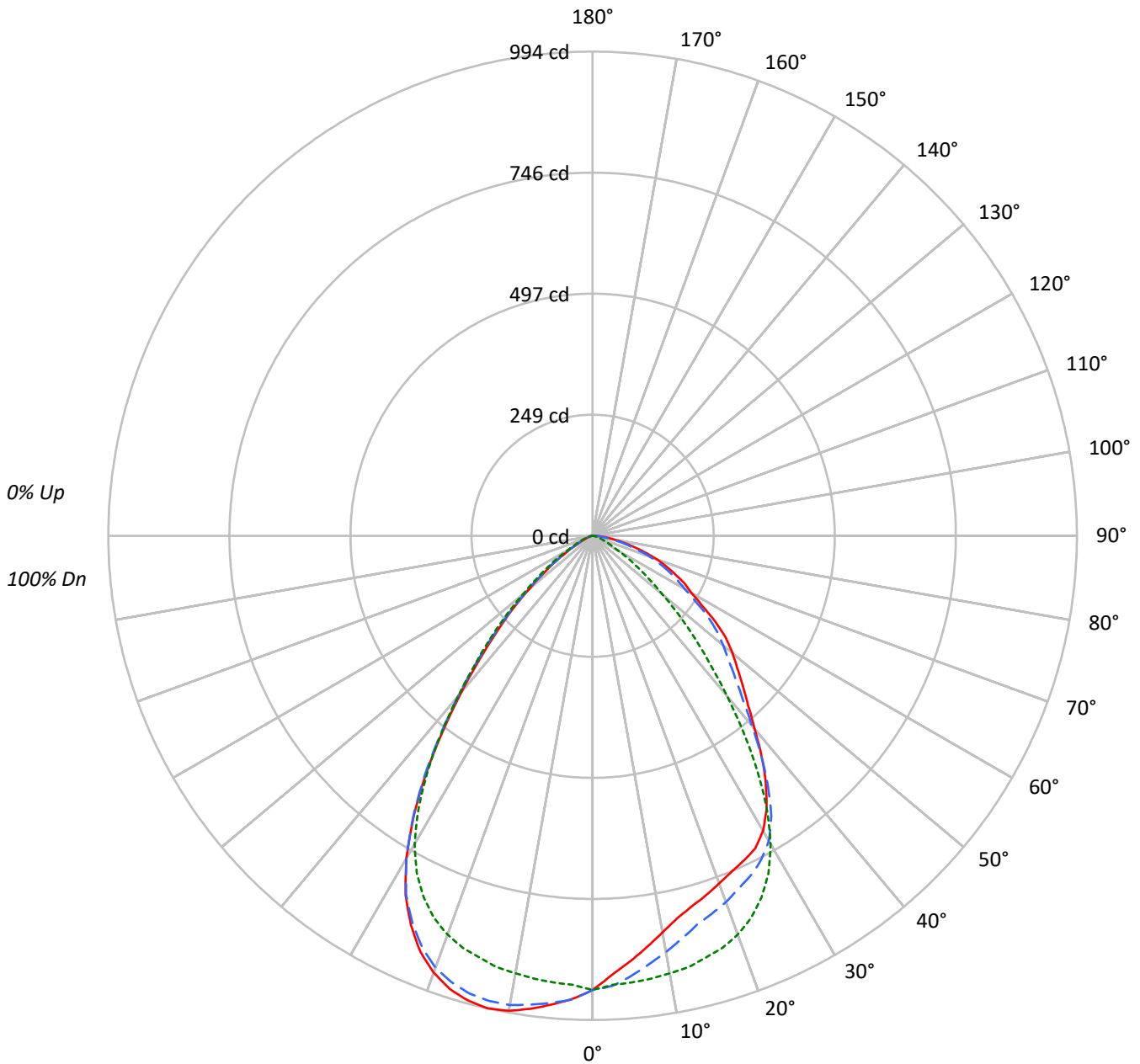
Lumens per Lamp: N/A
Luminaire Lumens: 1634.6 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (A_{in}): 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	100	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114561	114561	114561
5°	108179	113519	119142
10°	103130	113783	123526
15°	100109	114023	125636
20°	99282	113899	124737
25°	99686	111086	119558
30°	99216	103642	108409
35°	92985	88501	89386
40°	82865	68608	67068
45°	75786	51149	48022
50°	71653	35817	32377
55°	65906	24203	20326
60°	57569	14177	11229
65°	54476	9070	6279
70°	49641	6466	3879
75°	41059	4557	2895
80°	32332	2618	1698
85°	28756	1692	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	5.4
10°-20°	252.8	15.5
20°-30°	374.7	22.9
30°-40°	375.2	23.0
40°-50°	262.2	16.0
50°-60°	156.0	9.5
60°-70°	81.4	5.0
70°-80°	36.2	2.2
80°-90°	7.9	0.5
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°	715.6	43.8
0°-40°	1090.8	66.7
0°-60°	1509.0	92.3
0°-90°	1634.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	932	932	932	932	932	
5°	877	907	920	962	966	82
15°	787	827	896	973	988	223
25°	735	769	820	876	882	339
35°	620	627	590	601	596	384
45°	436	415	294	285	276	339
55°	308	288	113	98	95	273
65°	187	172	31	23	22	185
75°	86	76	10	6	6	94
85°	20	16	1	1	0	23
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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	902.4	913.2	902.4	906.1	920.5	907.3	914.5	914.5	910.9	919.3	925.3
5°	877.2	888.0	877.2	882.0	897.6	884.4	892.8	890.4	891.7	898.9	907.3
7.5°	852.0	860.4	850.8	856.8	871.2	860.4	867.6	867.6	868.8	879.6	886.8
10°	826.7	834.0	826.7	831.5	847.2	837.6	842.3	843.6	847.2	856.8	867.6
12.5°	803.9	810.0	802.7	810.0	823.1	813.5	819.5	820.7	824.3	835.2	847.2
15°	787.1	793.1	785.9	791.9	803.9	796.7	801.5	803.9	806.3	815.9	826.7
17.5°	773.9	778.7	772.7	779.9	789.5	781.1	788.3	788.3	791.9	801.5	813.5
20°	759.4	764.2	759.4	765.5	776.3	769.1	775.1	775.1	778.7	789.5	800.3
22.5°	746.2	748.6	746.2	751.0	761.8	755.8	759.4	760.7	764.2	773.9	783.5
25°	735.4	740.2	737.8	742.6	749.8	743.8	747.5	748.6	752.2	760.7	769.1
27.5°	723.4	725.8	723.4	729.4	735.4	730.6	734.3	733.0	735.4	742.6	749.8
30°	699.4	701.8	701.8	705.4	710.2	707.8	711.3	707.8	710.2	716.2	723.4
32.5°	664.5	665.8	666.9	670.5	674.2	670.5	672.9	672.9	672.9	677.7	682.5
35°	620.0	622.4	621.3	623.7	627.3	626.1	626.1	624.8	622.4	624.8	627.3
37.5°	569.6	566.0	566.0	569.6	572.0	567.2	569.6	567.2	567.2	568.4	568.4
40°	516.7	513.1	516.7	517.9	519.1	516.7	515.5	513.1	509.5	510.7	508.3
42.5°	472.3	469.9	471.0	471.0	472.3	469.9	471.0	466.2	462.6	460.2	456.7
45°	436.2	432.6	436.2	433.8	433.8	432.6	431.4	429.0	424.2	420.6	414.6
47.5°	402.5	402.5	403.8	403.8	403.8	401.4	401.4	396.6	391.7	386.9	378.5
50°	374.9	372.5	377.3	377.3	373.7	372.5	373.7	367.7	364.1	358.1	349.7
52.5°	344.8	344.8	346.1	346.1	344.8	342.4	343.7	338.9	335.2	329.2	320.8
55°	307.7	305.2	308.8	308.8	307.7	306.4	307.7	304.0	300.4	295.6	288.4
57.5°	265.6	264.3	266.7	268.0	265.6	265.6	266.7	263.2	262.0	257.2	250.0
60°	234.3	233.1	235.5	236.8	234.3	234.3	234.3	229.5	227.1	222.3	217.5
62.5°	212.7	211.5	213.9	212.7	211.5	210.3	211.5	206.7	204.3	199.5	194.7
65°	187.4	188.7	189.9	189.9	188.7	187.4	187.4	185.0	182.7	177.9	171.8
67.5°	163.4	163.4	164.6	165.8	164.6	164.6	164.6	161.0	158.6	155.0	147.9
70°	138.2	137.0	140.6	140.6	138.2	139.4	138.2	137.0	134.6	129.7	123.8
72.5°	111.7	111.7	113.0	113.0	111.7	111.7	111.7	110.6	106.9	104.5	98.5
75°	86.5	86.5	87.7	88.9	86.5	86.5	87.7	85.3	82.9	79.4	75.7
77.5°	64.9	63.7	64.9	64.9	63.7	63.7	63.7	62.5	61.3	57.7	54.0
80°	45.7	44.5	45.7	45.7	45.7	44.5	44.5	43.2	43.2	40.8	37.3
82.5°	31.2	30.1	31.2	31.2	31.2	30.1	30.1	30.1	28.8	27.6	25.2
85°	20.4	19.3	19.3	20.4	19.3	19.3	19.3	19.3	18.0	16.9	15.6
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.5	8.5	8.5	7.2
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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	920.5	918.0	925.3	922.9	924.0	918.0	927.7	922.9	928.8	922.9	934.9
5°	904.9	902.4	913.2	912.1	913.2	908.5	919.3	918.0	925.3	920.5	933.7
7.5°	888.0	885.6	897.6	898.9	901.3	896.5	910.9	910.9	918.0	916.9	931.2
10°	868.8	870.0	882.0	884.4	889.2	886.8	900.0	903.7	913.2	912.1	930.1
12.5°	850.8	850.8	866.4	871.2	874.8	873.6	889.2	894.1	904.9	907.3	924.0
15°	832.8	834.0	848.4	855.5	860.4	859.2	876.0	882.0	895.2	896.5	916.9
17.5°	818.4	817.1	832.8	838.8	846.0	844.7	862.8	870.0	883.2	886.8	906.1
20°	806.3	805.2	819.5	826.7	831.5	830.4	848.4	856.8	868.8	871.2	890.4
22.5°	791.9	789.5	803.9	810.0	814.7	813.5	829.1	835.2	847.2	849.6	867.6
25°	775.1	772.7	785.9	789.5	793.1	790.7	803.9	807.6	817.1	819.5	837.6
27.5°	755.8	749.8	760.7	760.7	763.1	759.4	769.1	772.7	781.1	781.1	797.9
30°	725.8	717.4	723.4	722.2	723.4	718.6	724.6	725.8	731.9	730.6	742.6
32.5°	683.7	671.7	675.3	671.7	668.2	661.0	668.2	665.8	670.5	665.8	676.6
35°	626.1	614.1	612.8	608.0	604.4	598.4	598.4	592.5	593.6	590.1	597.3
37.5°	563.6	548.0	545.6	535.9	530.0	522.7	522.7	517.9	511.9	509.5	515.5
40°	502.3	485.5	479.5	463.9	457.8	450.6	445.8	439.8	437.4	427.8	432.6
42.5°	449.4	431.4	418.2	401.4	395.3	384.5	377.3	370.1	366.5	355.7	360.5
45°	404.9	383.4	368.9	347.2	338.9	326.8	316.0	307.7	299.2	294.4	292.0
47.5°	367.7	344.8	325.7	301.6	288.4	277.6	263.2	254.8	244.0	237.9	234.3
50°	336.5	311.2	289.6	262.0	248.8	236.8	219.9	206.7	197.1	187.4	185.0
52.5°	308.8	282.4	258.3	227.1	211.5	197.1	179.1	164.6	156.2	145.4	144.2
55°	276.4	253.6	227.1	194.7	179.1	164.6	145.4	131.0	120.2	113.0	110.6
57.5°	241.6	219.9	194.7	162.2	146.6	131.0	113.0	99.7	90.2	84.1	82.9
60°	209.1	188.7	164.6	132.2	116.6	103.4	84.1	70.9	62.5	57.7	55.3
62.5°	185.0	165.8	143.0	113.0	98.5	85.3	67.3	55.3	48.1	43.2	40.8
65°	162.2	143.0	122.5	94.9	82.9	70.9	54.0	43.2	36.0	31.2	28.8
67.5°	138.2	121.4	102.1	79.4	67.3	57.7	43.2	33.6	27.6	24.0	21.6
70°	114.1	98.5	82.9	63.7	55.3	45.7	33.6	26.4	20.4	18.0	15.6
72.5°	90.2	78.1	64.9	49.3	42.1	36.0	26.4	19.3	15.6	13.2	10.8
75°	67.3	58.9	48.1	37.3	31.2	26.4	19.3	14.4	12.0	9.6	8.5
77.5°	48.1	40.8	33.6	25.2	22.8	19.3	13.2	10.8	8.5	6.1	4.8
80°	32.5	28.8	22.8	18.0	14.4	13.2	9.6	7.2	4.8	3.7	3.7
82.5°	21.6	18.0	14.4	10.8	9.6	8.5	6.1	4.8	3.7	2.4	2.4
85°	13.2	10.8	8.5	6.1	6.1	4.8	3.7	2.4	1.2	1.2	1.2
87.5°	6.1	4.8	3.7	2.4	2.4	1.2	1.2	1.2	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°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	944.5	937.3	932.5	938.5	940.9	937.3	940.9	946.9	952.9	954.1	937.3
5°	945.7	938.5	936.1	943.3	944.5	943.3	946.9	955.3	962.5	965.0	948.1
7.5°	945.7	940.9	939.7	948.1	949.3	948.1	954.1	963.7	970.9	975.7	958.9
10°	943.3	940.9	942.1	949.3	951.8	951.8	960.1	970.9	978.2	983.0	966.1
12.5°	939.7	939.7	939.7	948.1	950.5	951.8	958.9	973.3	978.2	985.4	968.5
15°	933.7	933.7	933.7	942.1	945.7	945.7	954.1	967.4	973.3	980.6	963.7
17.5°	922.9	922.9	924.0	931.2	934.9	934.9	943.3	957.7	961.3	969.8	952.9
20°	907.3	907.3	908.5	915.6	919.3	916.9	927.7	939.7	943.3	950.5	933.7
22.5°	884.4	884.4	884.4	891.7	894.1	892.8	903.7	914.5	914.5	924.0	906.1
25°	850.8	853.1	850.8	857.9	860.4	859.2	868.8	878.5	876.0	886.8	868.8
27.5°	810.0	808.7	808.7	814.7	814.7	813.5	820.7	831.5	829.1	836.4	819.5
30°	753.4	757.0	751.0	759.4	755.8	753.4	758.2	767.9	764.2	770.3	757.0
32.5°	688.5	683.7	683.7	683.7	686.1	680.1	684.9	689.8	686.1	692.2	677.7
35°	603.3	604.4	600.9	602.0	603.3	596.0	600.9	605.7	600.9	604.4	591.2
37.5°	517.9	519.1	510.7	515.5	510.7	508.3	513.1	515.5	510.7	514.3	499.9
40°	432.6	430.2	429.0	429.0	430.2	424.2	427.8	431.4	427.8	430.2	417.0
42.5°	358.1	356.9	354.6	355.7	352.1	350.9	352.1	355.7	352.1	354.6	344.8
45°	293.2	290.8	287.2	288.4	288.4	282.4	286.0	288.4	284.8	286.0	277.6
47.5°	233.1	229.5	229.5	228.3	228.3	225.9	229.5	228.3	224.7	227.1	218.7
50°	181.5	179.1	179.1	179.1	179.1	175.4	176.7	179.1	175.4	175.4	170.6
52.5°	141.8	138.2	135.8	135.8	135.8	134.6	134.6	135.8	132.2	132.2	131.0
55°	106.9	105.8	102.1	102.1	102.1	98.5	99.7	99.7	98.5	98.5	94.9
57.5°	79.4	75.7	73.3	73.3	70.9	70.9	69.7	70.9	68.5	68.5	66.1
60°	52.9	50.5	49.3	48.1	48.1	46.9	48.1	46.9	46.9	45.7	44.5
62.5°	38.4	36.0	33.6	33.6	33.6	32.5	32.5	32.5	32.5	32.5	31.2
65°	27.6	25.2	25.2	24.0	24.0	22.8	22.8	22.8	22.8	22.8	21.6
67.5°	19.3	18.0	16.9	16.9	16.9	16.9	16.9	16.9	15.6	15.6	15.6
70°	14.4	13.2	12.0	12.0	12.0	12.0	12.0	10.8	12.0	12.0	10.8
72.5°	9.6	9.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	7.2	7.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.8	4.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	3.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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: P857288

CATALOG NUMBER: LX4C20D010 EX4C209850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	932.5	932.5	932.5	932.5	932.5	932.5	932.5	932.5
2.5°	955.3	954.1	951.8	955.3	945.7	942.1	940.9	951.8
5°	968.5	966.1	966.1	969.8	958.9	956.5	954.1	966.1
7.5°	980.6	978.2	978.2	981.8	972.2	969.8	967.4	979.4
10°	987.8	987.8	987.8	990.2	981.8	979.4	978.2	990.2
12.5°	991.3	991.3	990.2	994.9	984.1	984.1	981.8	993.8
15°	986.5	986.5	986.5	990.2	980.6	978.2	978.2	987.8
17.5°	974.6	974.6	973.3	977.0	966.1	966.1	965.0	975.7
20°	956.5	956.5	954.1	958.9	948.1	944.5	943.3	954.1
22.5°	927.7	926.4	925.3	927.7	918.0	915.6	914.5	924.0
25°	890.4	889.2	886.8	889.2	878.5	874.8	874.8	882.0
27.5°	837.6	837.6	834.0	837.6	825.5	824.3	823.1	831.5
30°	772.7	767.9	765.5	770.3	758.2	758.2	755.8	764.2
32.5°	692.2	687.4	686.1	688.5	677.7	674.2	678.9	683.7
35°	599.6	600.9	596.0	596.0	586.4	587.6	588.8	596.0
37.5°	510.7	508.3	507.0	508.3	501.1	498.7	496.3	503.5
40°	427.8	421.8	420.6	420.6	414.6	413.4	414.6	418.2
42.5°	349.7	348.5	343.7	346.1	340.0	342.4	341.3	341.3
45°	282.4	283.6	278.8	282.4	277.6	273.9	273.9	276.4
47.5°	223.5	223.5	222.3	222.3	218.7	219.9	217.5	221.2
50°	173.0	173.0	170.6	171.8	169.4	169.4	168.2	169.4
52.5°	132.2	131.0	131.0	129.7	127.3	128.6	129.7	127.3
55°	96.1	97.3	94.9	96.1	93.7	94.9	93.7	94.9
57.5°	66.1	67.3	64.9	67.3	64.9	66.1	64.9	64.9
60°	45.7	45.7	44.5	45.7	44.5	44.5	43.2	45.7
62.5°	31.2	31.2	31.2	31.2	31.2	30.1	31.2	31.2
65°	22.8	21.6	21.6	21.6	21.6	21.6	21.6	21.6
67.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
70°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	0.0	1.2	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)