

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: P684874

Luminaire Tested: **LX6C15D010 EX6159050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C15D010 EX6159050 6LCSWLI
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

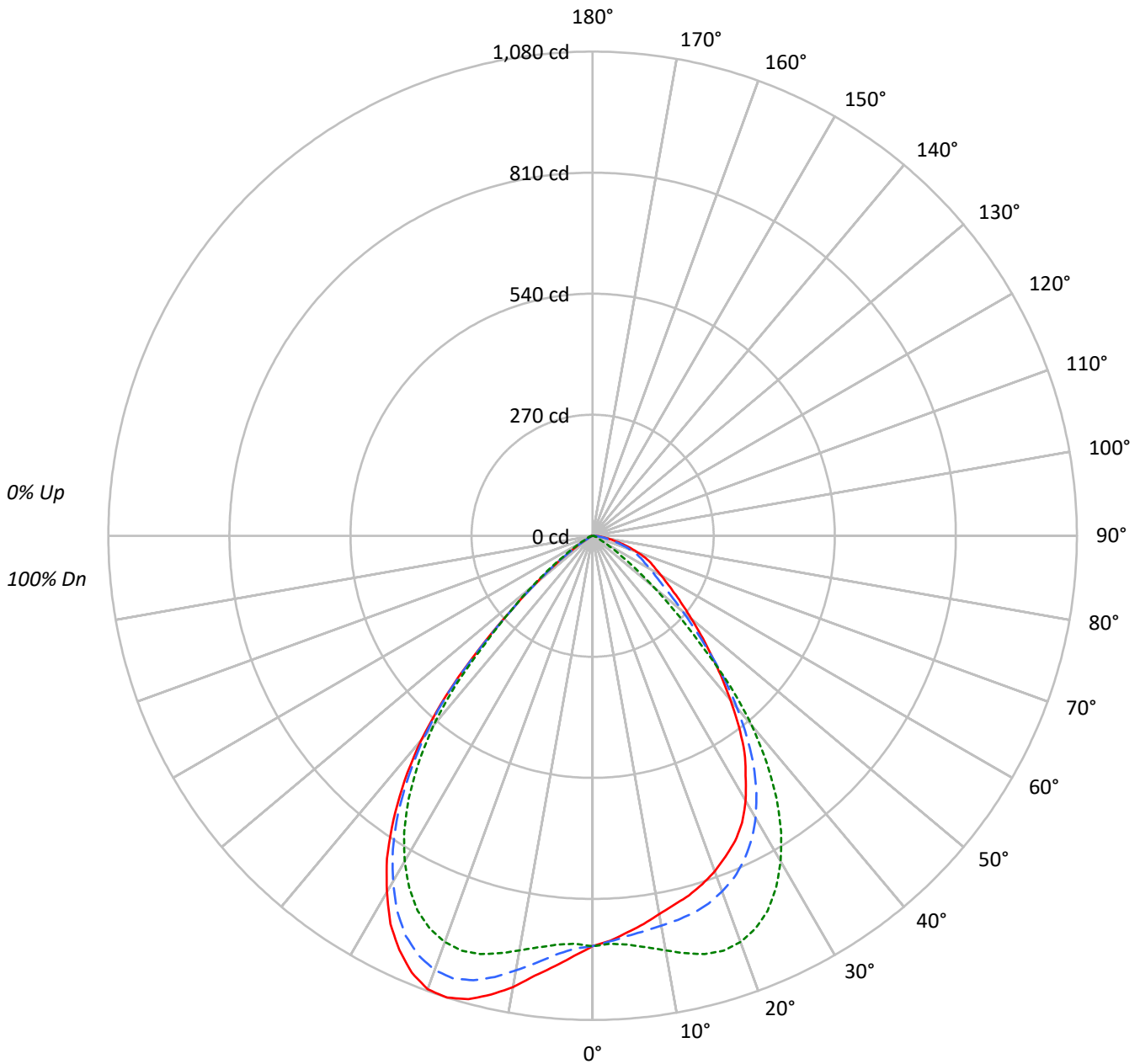
Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50177	50177	50177
5°	48872	50369	53015
10°	47683	52265	56891
15°	47129	54824	60732
20°	46449	56256	62790
25°	45462	55836	61661
30°	43203	53065	58047
35°	39525	47843	51825
40°	34193	39510	42515
45°	28832	25917	27809
50°	24477	15002	14106
55°	21247	7187	5438
60°	19187	3355	1338
65°	18614	1933	454
70°	16686	1539	417
75°	13725	1123	191
80°	10229	537	0
85°	8806	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	5.3
10°-20°	269.4	16.1
20°-30°	411.7	24.6
30°-40°	430.6	25.7
40°-50°	279.3	16.7
50°-60°	110.9	6.6
60°-70°	52.6	3.1
70°-80°	25.0	1.5
80°-90°	5.1	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°	769.5	46.0
0°-40°	1200.1	71.7
0°-60°	1590.3	95.1
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	915	915	915	915	915	
5°	888	896	915	938	963	84
15°	830	871	966	1026	1070	234
25°	752	799	923	985	1019	344
35°	591	626	715	757	774	365
45°	372	368	334	354	359	289
55°	222	189	75	59	57	201
65°	144	119	15	4	4	140
75°	65	52	5	2	1	70
85°	14	9	0	0	0	16
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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	903.9	905.6	896.0	893.4	900.4	903.0	903.9	901.3	902.1	905.6	905.6
5°	888.1	889.9	881.1	878.5	885.5	887.3	889.9	889.0	891.7	896.9	896.0
7.5°	873.3	875.9	866.3	862.8	871.5	875.9	877.6	877.6	881.1	888.1	889.0
10°	856.6	860.1	851.4	849.6	859.3	863.6	864.5	866.3	871.5	881.1	882.9
12.5°	842.6	846.1	840.0	837.4	847.9	852.3	854.0	857.5	863.6	875.9	877.6
15°	830.4	833.0	826.0	824.3	834.8	840.0	840.9	846.1	854.0	868.0	870.6
17.5°	814.6	816.4	811.1	809.4	819.9	825.1	826.0	832.1	841.8	855.8	860.1
20°	796.2	798.0	792.8	791.0	801.5	807.6	808.5	813.8	825.1	840.0	844.4
22.5°	774.4	777.9	771.8	770.0	780.5	785.8	788.4	792.8	804.1	819.0	825.1
25°	751.6	751.6	747.3	746.4	756.0	762.1	761.3	767.4	778.7	793.6	798.9
27.5°	721.9	721.0	716.6	715.8	726.3	731.5	729.7	735.9	746.4	761.3	766.5
30°	682.5	684.3	678.1	676.4	685.2	693.9	693.0	699.1	709.6	723.6	727.1
32.5°	635.3	637.0	636.1	633.5	641.4	645.8	648.4	652.8	661.5	676.4	679.9
35°	590.6	588.0	584.5	584.5	592.4	599.4	596.7	602.0	610.8	625.6	626.5
37.5°	535.5	534.6	532.9	531.1	539.9	541.6	542.5	546.0	553.9	566.1	564.4
40°	477.8	478.6	477.8	474.2	479.5	486.5	485.6	487.4	494.4	503.1	500.5
42.5°	423.5	423.5	423.5	420.0	426.1	429.6	431.4	430.5	432.2	440.1	436.6
45°	371.9	372.7	371.9	371.0	371.9	373.6	371.9	371.0	371.0	373.6	368.4
47.5°	327.3	327.3	324.6	322.0	324.6	325.5	322.9	320.3	319.4	318.5	309.8
50°	287.0	286.1	285.3	280.9	283.5	284.4	280.9	279.1	275.6	271.3	260.8
52.5°	252.0	251.1	250.2	245.9	247.6	248.5	245.0	241.5	237.1	233.6	220.5
55°	222.3	221.4	221.4	218.8	217.0	218.8	215.3	212.6	206.5	202.1	189.0
57.5°	196.9	196.9	195.1	192.5	193.4	193.4	189.9	186.4	181.1	175.9	165.4
60°	175.0	175.0	175.0	172.4	172.4	172.4	170.6	167.1	162.8	157.5	147.0
62.5°	157.5	157.5	156.6	154.0	154.9	154.9	153.1	149.6	145.3	141.7	131.3
65°	143.5	143.5	143.5	140.9	140.9	141.7	140.0	136.5	133.0	128.6	119.0
67.5°	126.0	125.1	125.1	123.4	124.2	125.1	123.4	120.8	116.4	113.8	105.0
70°	104.1	105.0	105.9	103.3	104.1	104.1	103.3	100.6	98.0	95.4	87.5
72.5°	84.9	84.9	84.0	83.1	83.1	84.0	82.3	79.6	77.9	76.1	70.0
75°	64.8	63.9	64.8	63.0	63.0	63.0	61.2	60.4	59.5	56.9	52.5
77.5°	47.3	46.4	46.4	44.6	45.5	45.5	44.6	42.9	41.1	40.3	36.7
80°	32.4	32.4	32.4	31.5	31.5	30.6	30.6	29.8	28.0	27.1	25.4
82.5°	21.9	21.9	21.9	21.0	21.0	21.0	20.1	19.2	18.4	17.5	15.8
85°	14.0	14.0	14.0	13.1	13.1	13.1	12.2	12.2	11.4	10.5	8.7
87.5°	7.9	7.9	7.9	7.0	7.0	7.0	7.0	7.0	6.1	5.3	4.4
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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	911.7	899.5	907.4	907.4	904.8	911.7	916.2	919.6	918.8	910.9	910.0
5°	904.8	894.3	903.0	903.9	901.3	910.9	917.0	921.4	922.3	915.3	916.2
7.5°	899.5	890.8	902.1	905.6	904.8	913.5	920.5	927.5	931.0	925.8	926.6
10°	896.9	889.9	902.1	907.4	908.3	917.9	928.4	938.0	942.4	938.9	941.5
12.5°	893.4	889.0	903.0	910.9	914.4	924.0	937.1	948.5	955.5	953.8	959.0
15°	889.9	886.4	903.0	914.4	918.8	927.5	942.4	959.0	966.9	966.0	973.0
17.5°	881.1	880.3	897.8	910.0	916.2	926.6	940.6	960.7	968.6	970.4	979.1
20°	867.2	867.2	886.4	899.5	906.5	916.2	933.6	952.9	962.5	964.3	973.9
22.5°	847.9	849.6	868.0	881.1	891.7	898.6	917.0	937.1	945.9	948.5	959.0
25°	822.5	824.3	841.8	854.9	866.3	874.1	891.7	910.0	920.5	923.1	931.0
27.5°	789.3	792.8	809.4	822.5	832.1	837.4	855.8	875.0	882.9	885.5	893.4
30°	750.8	751.6	768.3	779.6	789.3	793.6	809.4	829.5	835.6	838.3	849.6
32.5°	703.5	702.6	718.4	728.9	736.8	742.0	758.6	771.8	777.9	782.3	788.4
35°	646.6	645.8	657.1	669.4	675.5	677.3	693.9	707.9	711.4	714.9	722.8
37.5°	582.8	582.8	592.4	598.5	605.5	608.1	616.0	631.8	637.9	637.0	643.1
40°	515.4	511.9	518.9	525.0	526.8	527.6	535.5	547.7	552.1	552.1	556.5
42.5°	444.5	439.2	440.1	443.6	445.4	439.2	444.5	452.4	449.7	453.3	454.1
45°	369.3	361.4	357.9	350.0	351.8	345.6	342.1	343.9	343.0	334.3	336.0
47.5°	308.0	294.0	287.9	276.5	273.9	266.9	262.5	254.6	247.6	247.6	243.2
50°	256.4	242.4	230.1	217.0	212.6	206.5	196.9	186.4	181.1	175.9	171.5
52.5°	215.3	200.4	185.5	171.5	165.4	157.5	144.4	133.9	124.2	119.0	113.8
55°	182.0	165.4	149.6	134.7	126.9	119.0	105.9	93.6	82.3	75.2	70.9
57.5°	156.6	140.9	124.2	108.5	101.5	92.7	78.8	65.6	55.1	47.3	42.9
60°	138.3	122.5	107.6	91.0	84.0	75.2	60.4	48.1	37.6	30.6	25.4
62.5°	122.5	108.5	92.7	77.9	70.9	62.1	48.1	35.9	26.2	19.2	14.9
65°	111.1	97.1	84.0	69.1	63.0	54.3	41.1	29.8	21.0	14.9	10.5
67.5°	98.0	85.7	72.6	60.4	54.3	47.3	35.0	25.4	17.5	12.2	8.7
70°	82.3	72.6	61.2	49.9	45.5	39.4	28.9	21.0	14.0	9.6	7.0
72.5°	65.6	57.8	49.0	40.3	36.7	30.6	23.6	16.6	10.5	7.0	5.3
75°	49.9	43.7	36.7	30.6	27.1	23.6	17.5	12.2	7.9	5.3	3.5
77.5°	34.1	31.5	26.2	21.0	19.2	16.6	11.4	7.9	5.3	3.5	1.7
80°	23.6	21.0	17.5	14.0	12.2	10.5	7.0	5.3	2.6	1.7	0.9
82.5°	14.9	12.2	10.5	8.7	7.9	6.1	4.4	2.6	1.7	0.9	0.9
85°	7.9	7.0	6.1	4.4	4.4	3.5	2.6	1.7	0.9	0.0	0.0
87.5°	4.4	3.5	2.6	1.7	1.7	0.9	0.9	0.9	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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	920.5	920.5	919.6	930.1	917.9	930.1	924.0	930.1	921.4	920.5	921.4
5°	927.5	930.1	931.0	940.6	929.3	944.1	938.9	944.1	938.0	939.8	942.4
7.5°	941.5	945.9	945.0	957.3	945.9	962.5	959.0	966.9	960.7	962.5	966.0
10°	957.3	962.5	963.4	975.6	965.1	985.3	980.9	989.6	984.4	987.0	991.4
12.5°	975.6	981.8	982.7	996.6	985.3	1006.3	1003.6	1012.4	1008.0	1010.6	1015.9
15°	989.6	998.4	1000.1	1014.1	1001.9	1023.8	1022.0	1033.4	1026.4	1030.8	1035.1
17.5°	996.6	1004.5	1008.0	1021.1	1010.6	1032.5	1030.8	1040.4	1035.1	1039.5	1044.8
20°	992.3	1001.9	1004.5	1017.6	1007.2	1029.0	1026.4	1036.0	1030.8	1034.3	1039.5
22.5°	976.5	986.1	989.6	1001.9	992.3	1012.4	1011.5	1020.3	1013.3	1017.6	1022.0
25°	948.5	959.0	960.7	972.1	961.6	982.7	980.9	990.5	985.3	987.9	994.0
27.5°	908.3	920.5	923.1	932.8	924.9	942.4	942.4	950.3	944.1	944.1	950.3
30°	860.1	872.4	874.1	882.0	875.0	890.8	891.7	899.5	889.9	895.1	896.0
32.5°	801.5	809.4	814.6	821.6	811.1	831.3	828.6	834.8	829.5	829.5	833.9
35°	730.6	740.3	742.9	751.6	742.9	758.6	758.6	762.1	756.9	756.9	763.9
37.5°	653.6	660.6	661.5	670.3	663.2	676.4	675.5	678.1	672.9	676.4	676.4
40°	563.5	568.8	570.5	574.9	574.0	583.6	582.8	584.5	581.9	582.8	584.5
42.5°	458.5	465.5	469.0	472.5	467.3	480.4	477.8	480.4	479.5	480.4	483.0
45°	337.8	343.0	345.6	346.5	344.8	352.6	358.7	353.5	354.4	352.6	356.1
47.5°	244.1	245.0	243.2	248.5	244.1	247.6	249.4	250.2	245.0	244.1	247.6
50°	167.1	171.5	165.4	168.0	167.1	170.6	168.9	169.8	164.5	167.1	165.4
52.5°	111.1	110.2	108.5	109.4	107.6	107.6	107.6	109.4	105.9	104.1	102.4
55°	67.4	65.6	62.1	61.2	61.2	62.1	60.4	58.6	58.6	57.8	57.8
57.5°	39.4	36.7	35.0	34.1	32.4	31.5	30.6	30.6	28.9	28.9	28.9
60°	21.9	19.2	17.5	15.8	15.8	14.9	14.0	13.1	13.1	13.1	12.2
62.5°	11.4	9.6	7.9	7.0	7.0	6.1	5.3	5.3	5.3	5.3	4.4
65°	7.9	6.1	5.3	4.4	4.4	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	6.1	5.3	4.4	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6
70°	5.3	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	915.3	915.3	915.3	915.3	915.3	915.3	915.3	915.3
2.5°	929.3	928.4	929.3	931.0	927.5	938.0	932.8	938.0
5°	949.4	950.3	951.1	953.8	949.4	962.5	955.5	963.4
7.5°	975.6	976.5	977.4	980.0	977.4	990.5	982.7	989.6
10°	1002.8	1004.5	1004.5	1008.9	1006.3	1018.5	1013.3	1022.0
12.5°	1028.1	1029.9	1031.7	1034.3	1032.5	1045.6	1041.3	1048.3
15°	1048.3	1051.7	1052.6	1056.1	1054.4	1068.4	1063.1	1070.1
17.5°	1057.9	1061.4	1061.4	1065.8	1064.0	1078.9	1071.9	1079.8
20°	1052.6	1055.3	1056.1	1060.5	1058.8	1073.7	1066.6	1076.3
22.5°	1036.0	1036.9	1037.8	1042.1	1041.3	1054.4	1048.3	1054.4
25°	1005.4	1008.0	1007.2	1010.6	1010.6	1021.1	1014.1	1019.4
27.5°	961.6	964.3	964.3	968.6	965.1	975.6	968.6	976.5
30°	908.3	910.9	909.1	912.6	909.1	919.6	914.4	917.0
32.5°	844.4	844.4	845.2	846.1	844.4	854.0	848.8	854.0
35°	768.3	770.0	770.9	771.8	770.0	777.0	770.9	774.4
37.5°	682.5	686.9	686.0	686.9	684.3	693.0	687.7	689.5
40°	590.6	590.6	589.7	591.5	588.9	595.9	592.4	594.1
42.5°	483.9	486.5	483.0	487.4	480.4	490.0	486.5	483.9
45°	363.1	359.6	358.7	359.6	357.0	357.9	360.5	358.7
47.5°	247.6	247.6	245.9	243.2	246.8	247.6	244.1	244.1
50°	166.2	166.2	164.5	163.6	165.4	164.5	162.8	165.4
52.5°	105.9	102.4	102.4	104.1	102.4	100.6	103.3	101.5
55°	57.8	56.0	56.0	57.8	56.0	56.0	55.1	56.9
57.5°	28.0	28.9	28.0	28.0	28.0	28.0	27.1	28.0
60°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
62.5°	5.3	5.3	4.4	4.4	4.4	4.4	4.4	4.4
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	2.6	2.6	2.6	2.6	2.6	3.5	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	3.5	3.5	3.5	3.5	3.5	3.5
75°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)