

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: PORTFOLIO

Report Number: P252352

Luminaire Tested: **LE_6B15D010 EC6B10208040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1716.2 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

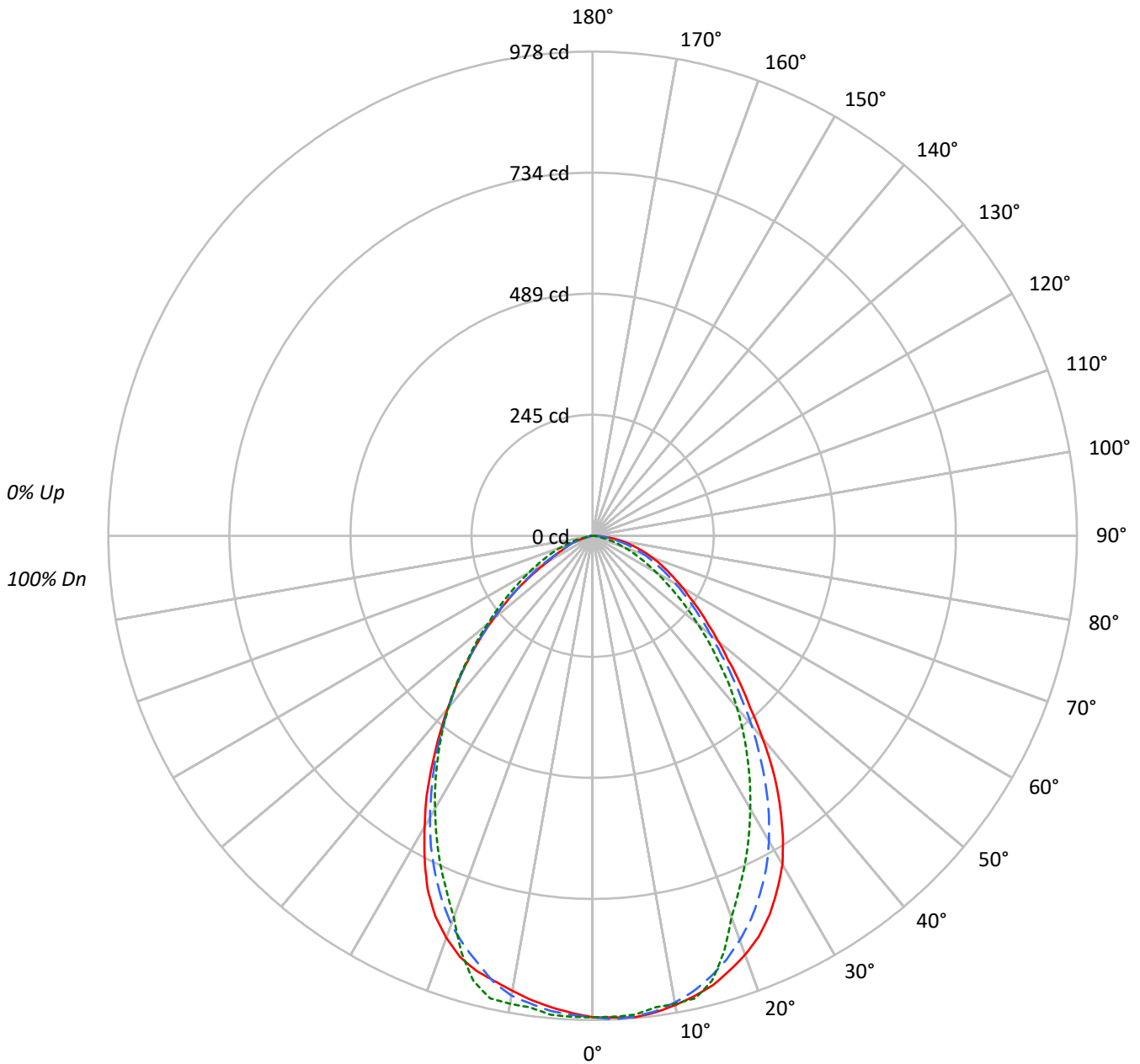
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	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°	63447	63447	63447
5°	63931	63597	62608
10°	63756	63584	61822
15°	63463	62868	61409
20°	62520	56903	59979
25°	60820	52463	56724
30°	57751	47950	51084
35°	52406	43358	44959
40°	45495	38614	38716
45°	38797	33206	32855
50°	33585	28074	26531
55°	30028	23420	20542
60°	27349	19442	13844
65°	25549	15978	10328
70°	24321	13009	8679
75°	22913	9226	2874
80°	21829	4734	939
85°	17965	2844	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	5.4
10°-20°	256.8	15.0
20°-30°	354.5	20.7
30°-40°	360.8	21.0
40°-50°	289.9	16.9
50°-60°	192.8	11.2
60°-70°	109.8	6.4
70°-80°	49.3	2.9
80°-90°	10.4	0.6
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°	703.2	41.0
0°-40°	1063.9	62.0
0°-60°	1546.7	90.1
0°-90°	1716.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	972	972	972	972	972	
5°	976	975	971	964	956	93
15°	940	922	931	894	909	264
25°	845	799	729	753	788	387
35°	658	608	544	554	564	409
45°	420	395	360	356	356	326
55°	264	246	206	183	181	237
65°	166	148	104	67	67	165
75°	91	76	37	15	11	97
85°	24	16	4	1	0	29
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°	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5
2.5°	973.8	978.8	977.5	976.2	977.5	976.2	973.8	973.8	971.1	971.1	977.5
5°	976.2	978.8	977.5	976.2	976.2	977.5	972.5	972.5	969.9	968.6	975.0
7.5°	971.1	975.0	972.5	972.5	971.1	972.5	967.4	967.4	963.6	962.4	968.6
10°	962.4	967.4	964.9	964.9	964.9	962.4	959.8	958.5	954.8	953.5	957.2
12.5°	952.2	956.0	954.8	952.2	952.2	952.2	947.1	945.9	940.9	938.4	942.1
15°	939.6	942.1	940.9	939.6	937.1	937.1	932.0	929.5	924.5	919.4	921.9
17.5°	920.6	924.5	921.9	920.6	916.9	916.9	911.9	909.2	901.8	896.6	897.9
20°	900.5	901.8	900.5	897.9	894.1	892.9	887.9	882.8	876.5	870.1	868.9
22.5°	876.5	877.8	873.9	871.4	867.6	866.4	860.0	856.2	846.1	838.6	837.2
25°	844.9	846.1	846.1	839.9	837.2	834.8	828.5	822.1	813.4	803.2	799.4
27.5°	807.0	810.8	808.2	802.0	796.9	795.6	789.4	784.2	772.9	764.0	759.0
30°	766.6	765.4	764.0	760.2	752.8	751.4	745.1	738.8	730.0	718.6	712.2
32.5°	714.8	714.8	713.5	709.8	702.1	699.6	694.6	687.0	676.9	668.1	661.8
35°	658.0	659.2	658.0	650.4	645.4	642.9	640.2	631.5	622.6	612.5	607.5
37.5°	598.6	594.9	596.1	589.8	583.5	586.0	578.4	574.6	564.5	557.0	551.9
40°	534.2	536.8	531.6	529.1	525.4	521.6	521.6	515.2	510.2	501.4	498.9
42.5°	471.1	474.9	473.6	471.1	466.0	467.2	461.0	458.4	452.1	448.4	444.5
45°	420.5	420.5	420.5	418.0	416.8	414.2	410.5	406.6	402.9	397.9	395.2
47.5°	371.2	371.2	372.5	370.0	367.5	366.2	363.8	363.8	357.4	352.4	349.9
50°	330.9	330.9	330.9	328.4	325.9	325.9	323.2	320.8	317.0	313.2	310.6
52.5°	294.2	294.2	294.2	291.8	290.5	289.2	288.0	286.6	281.6	279.1	276.6
55°	264.0	262.6	262.6	261.4	258.9	258.9	257.6	255.1	251.4	247.5	246.2
57.5°	233.6	234.9	233.6	233.6	231.1	231.1	228.6	227.4	223.5	221.0	218.5
60°	209.6	209.6	209.6	208.4	205.9	207.1	204.6	203.4	199.5	195.8	193.2
62.5°	185.6	186.9	186.9	185.6	183.1	183.1	181.9	180.6	176.8	173.0	169.2
65°	165.5	165.5	165.5	164.1	162.9	162.9	161.6	160.4	156.6	151.5	147.8
67.5°	146.5	145.2	145.2	145.2	144.0	142.8	141.5	140.1	136.4	132.6	127.5
70°	127.5	127.5	127.5	126.2	123.8	125.0	123.8	122.5	118.8	114.9	111.1
72.5°	109.9	109.9	108.6	107.4	107.4	106.1	106.1	104.9	101.0	96.0	92.2
75°	90.9	90.9	90.9	90.9	88.4	89.6	87.1	85.9	83.4	79.6	75.8
77.5°	74.5	74.5	74.5	73.2	72.0	72.0	70.8	69.5	65.6	63.1	58.1
80°	58.1	58.1	58.1	58.1	56.9	55.6	54.2	53.0	50.5	46.8	43.0
82.5°	43.0	43.0	41.6	41.6	41.6	40.4	39.1	37.9	35.4	32.9	30.2
85°	24.0	25.2	25.2	22.8	24.0	22.8	22.8	20.2	20.2	17.6	16.4
87.5°	8.9	7.6	7.6	7.6	7.6	7.6	7.6	6.4	6.4	6.4	5.0
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°	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5
2.5°	972.5	971.1	976.2	976.2	968.6	972.5	973.8	971.1	971.1	972.5	968.6
5°	969.9	967.4	972.5	973.8	966.1	969.9	971.1	968.6	969.9	971.1	966.1
7.5°	961.1	961.1	964.9	966.1	958.5	962.4	962.4	959.8	961.1	961.1	957.2
10°	952.2	948.5	952.2	952.2	945.9	947.1	949.8	948.5	953.5	959.8	959.8
12.5°	935.9	932.0	938.4	938.4	934.5	939.6	945.9	949.8	954.8	957.2	949.8
15°	915.6	916.9	928.2	937.1	933.2	940.9	947.1	944.6	938.4	930.8	919.4
17.5°	889.1	885.2	895.4	900.5	895.4	897.9	903.0	897.9	887.9	881.5	866.4
20°	858.8	848.6	848.6	846.1	837.2	837.2	836.0	827.2	823.4	819.6	813.4
22.5°	824.6	813.4	809.5	802.0	794.4	793.1	789.4	780.5	775.4	772.9	765.4
25°	785.5	775.4	769.1	761.5	750.1	747.6	743.9	735.0	732.5	728.8	722.4
27.5°	745.1	732.5	723.6	716.1	706.0	704.8	697.1	690.8	685.8	683.2	678.1
30°	698.4	684.5	678.1	668.1	660.5	658.0	651.6	642.9	639.0	636.5	632.8
32.5°	646.6	635.2	628.9	620.1	610.0	611.2	603.6	596.1	593.6	591.0	587.2
35°	596.1	584.8	577.1	569.6	563.2	560.8	555.6	549.4	545.6	544.4	541.8
37.5°	540.5	531.6	525.4	517.8	512.8	510.2	507.8	501.4	498.9	498.9	493.8
40°	486.2	478.6	473.6	469.8	463.5	462.2	459.8	455.9	454.6	453.4	449.6
42.5°	437.0	426.9	423.1	420.5	416.8	414.2	413.0	410.5	409.1	407.9	404.1
45°	390.2	381.4	377.6	375.1	371.2	370.0	368.8	365.0	362.5	359.9	358.6
47.5°	344.8	338.5	337.2	330.9	328.4	325.9	323.2	320.8	319.5	318.2	313.2
50°	305.6	301.9	295.5	291.8	289.2	288.0	282.9	279.1	277.9	276.6	272.8
52.5°	270.2	265.2	261.4	255.1	253.9	251.4	248.8	243.8	241.2	240.0	236.1
55°	238.8	234.9	229.9	224.8	221.0	219.8	216.0	210.9	208.4	205.9	203.4
57.5°	212.1	205.9	200.8	195.8	193.2	189.4	185.6	183.1	179.4	175.5	171.8
60°	186.9	181.9	175.5	170.5	168.0	165.5	160.4	156.6	152.8	149.0	145.2
62.5°	162.9	157.9	151.5	146.5	144.0	141.5	136.4	132.6	128.9	125.0	120.0
65°	141.5	136.4	131.4	126.2	123.8	121.2	116.2	111.1	107.4	103.5	98.5
67.5°	123.8	117.5	112.4	107.4	104.9	102.2	97.2	93.5	88.4	84.6	79.6
70°	104.9	99.8	96.0	90.9	88.4	85.9	80.9	75.8	72.0	68.2	63.1
72.5°	88.4	82.1	78.2	73.2	70.8	69.5	64.4	60.6	56.9	51.8	48.0
75°	70.8	65.6	60.6	56.9	54.2	53.0	48.0	44.2	40.4	36.6	32.9
77.5°	54.2	50.5	45.5	41.6	39.1	37.9	32.9	29.0	25.2	22.8	19.0
80°	40.4	35.4	32.9	29.0	27.8	25.2	22.8	19.0	16.4	12.6	10.1
82.5°	27.8	24.0	21.5	19.0	17.6	16.4	13.9	11.4	8.9	7.6	6.4
85°	15.1	12.6	11.4	10.1	8.9	8.9	7.6	6.4	5.0	3.8	2.5
87.5°	5.0	3.8	3.8	3.8	3.8	2.5	2.5	2.5	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5
2.5°	971.1	971.1	971.1	969.9	969.9	969.9	968.6	973.8	968.6	967.4	971.1
5°	969.9	967.4	967.4	967.4	967.4	966.1	964.9	967.4	963.6	962.4	962.4
7.5°	962.4	961.1	961.1	959.8	958.5	957.2	956.0	957.2	953.5	952.2	952.2
10°	963.6	961.1	961.1	957.2	954.8	951.0	947.1	948.5	943.4	939.6	939.6
12.5°	948.5	942.1	938.4	934.5	932.0	930.8	925.8	928.2	923.2	921.9	921.9
15°	914.4	906.8	900.5	897.9	897.9	895.4	891.6	896.6	894.1	895.4	901.8
17.5°	861.2	857.5	853.8	852.5	853.8	856.2	858.8	866.4	866.4	870.1	876.5
20°	814.6	812.0	814.6	814.6	815.9	820.9	826.0	832.2	834.8	838.6	847.4
22.5°	769.1	769.1	771.6	775.4	774.1	783.0	784.2	795.6	795.6	803.2	810.8
25°	724.9	724.9	727.4	728.8	731.2	736.2	741.4	750.1	752.8	760.2	766.6
27.5°	682.0	680.8	680.8	682.0	684.5	690.8	693.4	703.5	707.2	712.2	718.6
30°	634.0	632.8	635.2	637.8	636.5	642.9	646.6	654.2	656.8	661.8	666.9
32.5°	588.5	588.5	588.5	591.0	591.0	596.1	596.1	604.9	604.9	608.8	613.8
35°	541.8	541.8	543.0	544.4	545.6	546.9	548.1	553.1	554.4	555.6	558.2
37.5°	497.6	496.4	497.6	497.6	495.0	500.1	500.1	505.1	501.4	505.1	506.4
40°	452.1	452.1	450.9	450.9	450.9	453.4	450.9	454.6	452.1	454.6	453.4
42.5°	405.4	405.4	402.9	405.4	404.1	404.1	404.1	406.6	402.9	405.4	406.6
45°	358.6	357.4	357.4	356.1	356.1	356.1	357.4	357.4	356.1	358.6	358.6
47.5°	313.2	312.0	312.0	312.0	312.0	313.2	309.4	312.0	309.4	309.4	309.4
50°	274.0	272.8	271.5	270.2	269.0	269.0	267.8	267.8	265.2	264.0	262.6
52.5°	236.1	234.9	232.4	232.4	231.1	229.9	226.0	226.0	222.2	221.0	221.0
55°	202.1	198.2	197.0	194.5	194.5	192.0	189.4	186.9	183.1	180.6	180.6
57.5°	170.5	166.8	164.1	162.9	161.6	159.1	154.1	152.8	147.8	146.5	145.2
60°	142.8	138.9	135.1	132.6	131.4	127.5	122.5	120.0	117.5	113.6	109.9
62.5°	116.2	112.4	107.4	106.1	103.5	99.8	96.0	92.2	89.6	85.9	83.4
65°	93.5	89.6	85.9	83.4	80.9	77.0	73.2	69.5	66.9	65.6	64.4
67.5°	75.8	70.8	66.9	65.6	63.1	60.6	56.9	55.6	53.0	53.0	53.0
70°	59.4	55.6	51.8	50.5	49.2	46.8	44.2	44.2	44.2	44.2	44.2
72.5°	44.2	41.6	37.9	36.6	35.4	34.1	31.6	32.9	31.6	31.6	31.6
75°	27.8	25.2	22.8	21.5	20.2	19.0	17.6	16.4	15.1	13.9	13.9
77.5°	15.1	12.6	11.4	10.1	10.1	8.9	7.6	7.6	6.4	6.4	6.4
80°	8.9	7.6	6.4	5.0	5.0	3.8	3.8	3.8	3.8	2.5	2.5
82.5°	5.0	3.8	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
85°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	972.5	972.5	972.5	972.5	972.5	972.5	972.5	972.5
2.5°	964.9	968.6	964.9	968.6	968.6	968.6	968.6	964.9
5°	958.5	961.1	957.2	959.8	961.1	959.8	959.8	956.0
7.5°	947.1	949.8	945.9	949.8	951.0	949.8	948.5	945.9
10°	935.9	937.1	933.2	935.9	938.4	938.4	937.1	933.2
12.5°	918.1	921.9	918.1	920.6	923.2	924.5	924.5	920.6
15°	897.9	904.2	901.8	905.5	909.2	910.5	910.5	909.2
17.5°	877.8	884.0	880.2	886.6	890.4	892.9	894.1	891.6
20°	848.6	856.2	853.8	858.8	863.9	867.6	867.6	863.9
22.5°	810.8	820.9	819.6	823.4	829.8	831.0	833.5	831.0
25°	769.1	776.8	775.4	779.2	786.8	786.8	788.0	788.0
27.5°	721.1	728.8	727.4	730.0	735.0	736.2	737.5	735.0
30°	669.4	673.1	673.1	676.9	680.8	682.0	682.0	678.1
32.5°	612.5	617.6	620.1	618.9	622.6	625.1	623.9	623.9
35°	560.8	562.0	563.2	564.5	565.8	568.2	565.8	564.5
37.5°	505.1	509.0	506.4	509.0	511.5	510.2	509.0	509.0
40°	454.6	455.9	453.4	455.9	457.1	457.1	457.1	454.6
42.5°	404.1	406.6	404.1	406.6	406.6	406.6	406.6	405.4
45°	353.6	356.1	356.1	357.4	357.4	356.1	356.1	356.1
47.5°	306.9	309.4	306.9	309.4	310.6	308.1	308.1	308.1
50°	262.6	261.4	261.4	262.6	262.6	262.6	262.6	261.4
52.5°	217.2	218.5	218.5	218.5	219.8	218.5	219.8	219.8
55°	178.1	178.1	178.1	179.4	178.1	178.1	179.4	180.6
57.5°	142.8	141.5	140.1	140.1	141.5	140.1	140.1	140.1
60°	109.9	108.6	107.4	107.4	107.4	107.4	107.4	106.1
62.5°	82.1	82.1	82.1	83.4	83.4	83.4	83.4	84.6
65°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	66.9
67.5°	53.0	53.0	53.0	54.2	54.2	54.2	54.2	54.2
70°	44.2	44.2	45.5	44.2	45.5	45.5	45.5	45.5
72.5°	30.2	30.2	30.2	30.2	30.2	29.0	30.2	29.0
75°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.4
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)