

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: P252566

Luminaire Tested: **LE_6B15D010 EC6B10209040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1585.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

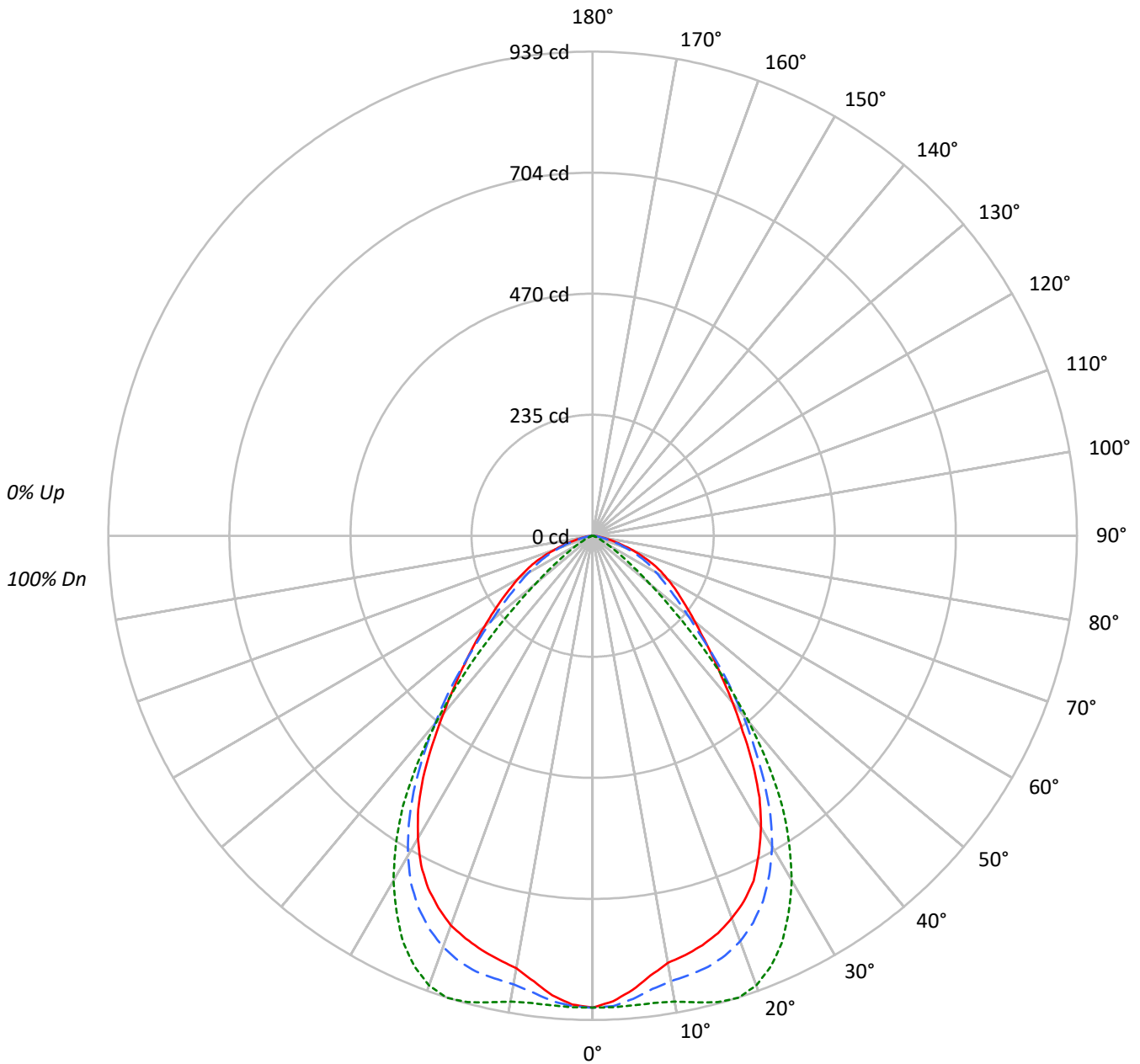
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59702	59702	59702
5°	57919	59858	58613
10°	55714	60762	56416
15°	55520	63233	56161
20°	54792	64415	55820
25°	53154	62598	54291
30°	49178	58172	51008
35°	43135	51139	45668
40°	35948	40096	38290
45°	30263	26461	32302
50°	26196	14504	27810
55°	23704	7712	24318
60°	21803	3993	21803
65°	19760	2130	19281
70°	15947	1221	14726
75°	10940	781	10133
80°	7138	376	6349
85°	4791	749	3892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	5.4
10°-20°	246.7	15.6
20°-30°	364.6	23.0
30°-40°	368.2	23.2
40°-50°	253.8	16.0
50°-60°	145.8	9.2
60°-70°	84.8	5.4
70°-80°	31.0	2.0
80°-90°	4.7	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°	696.6	44.0
0°-40°	1064.9	67.2
0°-60°	1464.5	92.4
0°-90°	1585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1585.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	915	915	915	915	915	
5°	884	901	914	906	895	83
15°	822	865	936	875	832	232
25°	738	782	870	798	754	336
35°	542	579	642	605	573	336
45°	328	332	287	353	350	255
55°	208	183	68	190	214	188
65°	128	108	14	107	125	125
75°	43	35	3	34	40	49
85°	6	3	1	4	5	8
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°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	903.5	904.5	905.6	904.5	905.6	909.8	906.6	908.8	908.8	909.8	913.0
5°	884.4	884.4	886.5	885.5	888.6	892.9	889.8	892.9	894.0	896.0	901.4
7.5°	860.1	860.1	861.1	861.1	865.4	869.6	867.5	871.8	876.0	880.2	886.5
10°	841.0	843.1	843.1	844.2	848.5	853.8	852.6	858.0	862.2	868.5	877.0
12.5°	832.6	833.6	833.6	835.8	840.0	845.2	844.2	849.5	855.9	863.2	871.8
15°	822.0	824.1	823.0	825.1	829.4	834.8	833.6	838.9	846.4	853.8	865.4
17.5°	808.2	809.2	810.4	810.4	814.6	818.9	818.9	824.1	832.6	841.0	853.8
20°	789.2	791.4	791.4	792.4	795.5	801.9	800.9	806.1	814.6	823.0	836.9
22.5°	767.0	768.0	768.0	769.1	774.4	777.6	778.6	782.9	790.2	799.8	812.5
25°	738.4	739.5	738.4	741.6	743.8	750.1	748.0	753.2	761.8	769.1	781.8
27.5°	697.1	699.2	699.2	700.4	705.6	710.9	710.9	716.2	723.6	728.9	741.6
30°	652.8	655.9	652.8	658.0	660.1	664.4	667.5	670.8	677.1	684.5	696.1
32.5°	602.0	600.9	602.0	604.1	610.4	613.6	615.8	618.9	625.2	631.6	641.1
35°	541.6	543.8	544.9	549.0	549.0	554.4	555.4	557.5	567.0	571.2	578.6
37.5°	478.1	480.2	481.4	483.5	487.8	489.9	493.0	496.1	502.5	509.9	514.1
40°	422.1	422.1	423.1	425.2	428.5	429.5	432.8	436.9	441.1	447.5	451.8
42.5°	369.2	370.2	369.2	371.4	374.5	378.8	377.6	383.0	384.0	388.2	391.4
45°	328.0	328.0	325.9	328.0	328.0	332.1	331.1	333.2	332.1	334.2	332.1
47.5°	288.8	289.9	288.8	289.9	289.9	289.9	290.9	288.8	289.9	286.8	280.4
50°	258.1	259.2	257.1	258.1	257.1	256.0	257.1	253.9	252.9	248.6	242.2
52.5°	231.6	230.6	229.6	229.6	229.6	228.5	227.5	224.2	221.1	216.9	209.5
55°	208.4	207.4	206.2	206.2	204.1	203.1	203.1	200.0	196.8	191.5	183.0
57.5°	187.2	186.2	185.1	185.1	184.1	182.0	182.0	178.8	174.5	168.2	160.8
60°	167.1	167.1	167.1	166.1	166.1	164.0	164.0	160.8	156.6	150.2	141.8
62.5°	149.1	148.1	148.1	148.1	148.1	147.0	146.0	143.9	139.6	133.2	125.9
65°	128.0	128.0	128.0	128.0	127.0	127.0	127.0	123.8	121.6	115.4	107.9
67.5°	104.8	104.8	104.8	104.8	103.6	104.8	104.8	102.6	100.5	94.1	87.8
70°	83.6	82.5	81.5	82.5	81.5	81.5	82.5	80.4	79.4	74.0	67.8
72.5°	61.4	62.4	61.4	61.4	61.4	60.2	61.4	60.2	58.1	54.0	49.8
75°	43.4	44.4	44.4	43.4	43.4	43.4	42.4	42.4	40.2	37.0	34.9
77.5°	29.6	29.6	29.6	29.6	28.6	28.6	28.6	27.5	26.5	24.4	22.2
80°	19.0	19.0	19.0	19.0	18.0	18.0	18.0	16.9	16.9	14.8	12.8
82.5°	11.6	11.6	11.6	11.6	11.6	11.6	10.6	10.6	9.5	8.5	7.4
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2	4.2	3.1
87.5°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1
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°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	910.9	911.9	911.9	911.9	915.1	916.1	913.0	909.8	916.1	915.1	917.2
5°	900.2	903.5	905.6	906.6	909.8	911.9	908.8	907.8	913.0	914.0	915.1
7.5°	887.6	892.9	898.1	900.2	904.5	906.6	905.6	905.6	911.9	914.0	914.0
10°	879.1	886.5	892.9	898.1	903.5	906.6	906.6	907.8	915.1	917.2	919.4
12.5°	877.0	886.5	895.0	902.4	906.6	911.9	913.0	916.1	923.6	926.8	926.8
15°	871.8	884.4	895.0	904.5	910.9	917.2	919.4	925.6	934.1	936.2	938.4
17.5°	862.2	874.9	887.6	899.2	907.8	913.0	919.4	925.6	936.2	939.4	940.5
20°	845.2	860.1	872.8	884.4	892.9	900.2	906.6	914.0	923.6	927.8	928.9
22.5°	819.9	834.8	847.4	860.1	868.5	874.9	881.2	889.8	899.2	903.5	903.5
25°	789.2	803.0	816.8	826.2	834.8	842.1	845.2	854.8	864.4	869.6	869.6
27.5°	750.1	762.8	775.5	786.0	791.4	797.6	803.0	811.4	818.9	823.0	827.2
30°	700.4	713.0	724.6	735.2	741.6	748.0	753.2	759.6	767.0	772.2	773.4
32.5°	646.4	657.0	668.6	679.1	685.5	687.6	692.9	699.2	705.6	709.9	710.9
35°	587.1	594.5	602.0	611.5	617.9	617.9	623.1	627.4	632.6	642.1	640.0
37.5°	517.4	527.9	533.2	536.4	540.6	544.9	545.9	551.1	557.5	559.6	562.9
40°	451.8	454.9	458.1	458.1	462.2	462.2	462.2	463.4	469.8	470.8	475.0
42.5°	386.1	386.1	383.0	379.8	380.9	379.8	374.5	374.5	377.6	381.9	381.9
45°	324.8	317.4	307.9	300.5	295.1	293.0	286.8	286.8	285.6	286.8	290.9
47.5°	273.0	260.2	244.4	229.6	224.2	220.0	210.5	206.2	204.1	205.2	207.4
50°	229.6	215.9	197.9	179.9	170.4	165.0	153.4	146.0	144.9	142.9	147.0
52.5°	197.9	180.9	161.9	140.8	131.1	122.8	110.0	103.6	99.5	99.5	100.5
55°	170.4	152.4	131.1	110.0	100.5	94.1	81.5	73.0	68.8	67.8	70.9
57.5°	147.0	130.1	109.0	87.8	78.2	70.9	58.1	50.8	47.6	45.5	46.5
60°	129.1	112.1	91.0	70.9	62.4	54.0	43.4	34.9	30.6	30.6	31.8
62.5°	112.1	96.2	77.2	58.1	50.8	43.4	31.8	24.4	21.1	20.1	21.1
65°	95.2	80.4	64.5	48.6	41.2	34.9	25.4	19.0	14.8	13.8	14.8
67.5°	77.2	65.6	51.9	39.1	32.8	27.5	19.0	13.8	10.6	9.5	10.6
70°	60.2	49.8	39.1	28.6	24.4	20.1	13.8	10.6	7.4	6.4	7.4
72.5°	43.4	36.0	27.5	20.1	16.9	13.8	9.5	7.4	5.2	4.2	5.2
75°	29.6	24.4	18.0	12.8	10.6	9.5	6.4	4.2	3.1	3.1	3.1
77.5°	19.0	14.8	11.6	8.5	6.4	5.2	3.1	2.1	2.1	2.1	2.1
80°	10.6	8.5	6.4	4.2	3.1	3.1	2.1	2.1	1.0	1.0	1.0
82.5°	6.4	4.2	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	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°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	913.0	914.0	910.9	915.1	911.9	916.1	916.1	911.9	913.0	910.9	915.1
5°	910.9	910.9	908.8	911.9	907.8	911.9	910.9	903.5	905.6	901.4	905.6
7.5°	910.9	908.8	905.6	908.8	903.5	906.6	902.4	895.0	892.9	887.6	887.6
10°	914.0	910.9	906.6	907.8	902.4	903.5	897.1	886.5	883.4	877.0	874.9
12.5°	921.5	918.2	911.9	914.0	906.6	906.6	898.1	885.5	879.1	870.6	868.5
15°	932.0	926.8	919.4	920.4	913.0	908.8	898.1	883.4	874.9	863.2	860.1
17.5°	934.1	928.9	919.4	919.4	909.8	904.5	891.9	874.9	864.4	852.6	846.4
20°	922.5	917.2	906.6	905.6	897.1	889.8	876.0	859.0	848.5	835.8	830.5
22.5°	898.1	891.9	882.2	881.2	872.8	868.5	853.8	836.9	826.2	813.5	809.2
25°	862.2	859.0	849.5	848.5	841.0	835.8	823.0	807.2	797.6	785.0	780.8
27.5°	819.9	816.8	807.2	807.2	798.8	795.5	783.9	769.1	761.8	750.1	744.8
30°	769.1	764.9	759.6	758.5	751.1	748.0	737.4	723.6	716.2	706.8	704.6
32.5°	708.8	705.6	702.5	701.4	694.0	690.9	683.4	669.6	663.4	654.9	651.6
35°	639.0	636.9	633.8	632.6	629.5	626.2	618.9	608.2	605.1	598.8	595.6
37.5°	558.6	560.8	558.6	558.6	555.4	556.5	550.1	543.8	540.6	536.4	534.2
40°	471.9	476.1	479.2	479.2	478.1	482.4	481.4	476.1	475.0	472.9	471.9
42.5°	384.0	386.1	392.5	396.8	395.6	406.2	407.2	411.5	414.8	412.6	413.6
45°	292.0	298.4	306.8	311.0	316.4	330.1	337.5	346.0	353.4	357.6	356.5
47.5°	210.5	217.9	227.5	233.8	243.4	260.2	279.2	289.9	300.5	305.8	311.0
50°	152.4	159.8	171.4	180.9	187.2	210.5	230.6	244.4	256.0	263.4	268.8
52.5°	106.9	115.4	128.0	136.5	146.0	168.2	191.5	207.4	220.0	229.6	234.9
55°	74.0	83.6	95.2	103.6	114.2	137.5	159.8	176.6	190.4	198.9	205.2
57.5°	51.9	60.2	72.0	79.4	89.9	112.1	134.4	151.2	165.0	173.5	180.9
60°	34.9	43.4	55.0	62.4	70.9	93.1	113.2	131.1	143.9	152.4	159.8
62.5°	24.4	31.8	43.4	50.8	58.1	77.2	96.2	112.1	124.9	134.4	140.8
65°	19.0	25.4	34.9	41.2	48.6	64.5	80.4	94.1	106.9	116.4	120.6
67.5°	13.8	20.1	27.5	32.8	38.1	51.9	65.6	76.1	87.8	95.2	100.5
70°	9.5	13.8	20.1	24.4	28.6	39.1	49.8	59.2	67.8	73.0	77.2
72.5°	7.4	9.5	13.8	16.9	20.1	27.5	36.0	43.4	49.8	54.0	58.1
75°	4.2	6.4	9.5	11.6	13.8	19.0	24.4	29.6	33.9	37.0	39.1
77.5°	2.1	3.1	5.2	6.4	8.5	11.6	15.9	19.0	22.2	24.4	26.5
80°	2.1	2.1	3.1	3.1	4.2	6.4	8.5	10.6	12.8	14.8	15.9
82.5°	1.0	1.0	2.1	2.1	2.1	3.1	4.2	6.4	7.4	8.5	9.5
85°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	4.2	5.2	5.2
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1
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°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	911.9	914.0	913.0	915.1	911.9	910.9	913.0	909.8
5°	900.2	901.4	900.2	900.2	898.1	896.0	898.1	895.0
7.5°	882.2	882.2	879.1	879.1	874.9	872.8	872.8	871.8
10°	867.5	864.4	861.1	862.2	855.9	853.8	852.6	851.6
12.5°	860.1	858.0	852.6	852.6	846.4	844.2	843.1	842.1
15°	851.6	847.4	843.1	842.1	836.9	834.8	833.6	831.5
17.5°	836.9	833.6	828.4	828.4	823.0	822.0	819.9	818.9
20°	821.0	816.8	812.5	812.5	806.1	806.1	803.0	804.0
22.5°	798.8	795.5	791.4	791.4	786.0	785.0	781.8	780.8
25°	772.2	768.0	764.9	763.9	759.6	757.5	756.4	754.2
27.5°	737.4	734.2	731.0	728.9	723.6	722.5	719.4	720.5
30°	694.0	691.9	690.9	688.8	682.4	680.2	680.2	677.1
32.5°	646.4	643.2	641.1	637.9	632.6	631.6	628.4	629.5
35°	588.2	584.0	580.8	581.9	575.5	574.5	572.4	573.4
37.5°	527.9	523.6	519.5	518.4	513.1	513.1	509.9	509.9
40°	465.5	461.2	459.1	459.1	452.8	453.9	450.6	449.6
42.5°	409.4	405.1	404.1	403.1	399.9	398.9	395.6	396.8
45°	356.5	355.5	355.5	353.4	350.1	349.1	350.1	350.1
47.5°	310.0	311.0	310.0	310.0	307.9	310.0	307.9	308.9
50°	270.9	273.0	273.0	273.0	271.9	273.0	273.0	274.0
52.5°	238.0	241.2	240.1	241.2	240.1	242.2	241.2	242.2
55°	209.5	211.6	212.6	213.8	213.8	213.8	213.8	213.8
57.5°	183.0	186.2	187.2	188.2	188.2	190.4	188.2	188.2
60°	161.9	165.0	166.1	167.1	167.1	168.2	166.1	167.1
62.5°	142.9	146.0	146.0	147.0	147.0	147.0	144.9	146.0
65°	123.8	124.9	125.9	125.9	124.9	124.9	123.8	124.9
67.5°	102.6	103.6	102.6	102.6	101.5	101.5	99.5	100.5
70°	79.4	79.4	80.4	79.4	78.2	79.4	78.2	77.2
72.5°	59.2	59.2	59.2	58.1	58.1	57.1	58.1	58.1
75°	40.2	40.2	41.2	41.2	41.2	41.2	40.2	40.2
77.5°	26.5	26.5	26.5	26.5	27.5	26.5	26.5	26.5
80°	16.9	16.9	18.0	18.0	16.9	16.9	16.9	16.9
82.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	5.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1
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)