

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: P252567

Luminaire Tested: **LE_6B15D010 EC6B10209050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252567
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 EC6B10209050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.2 lumens
Efficiency: N/A
Efficacy: 110.5 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

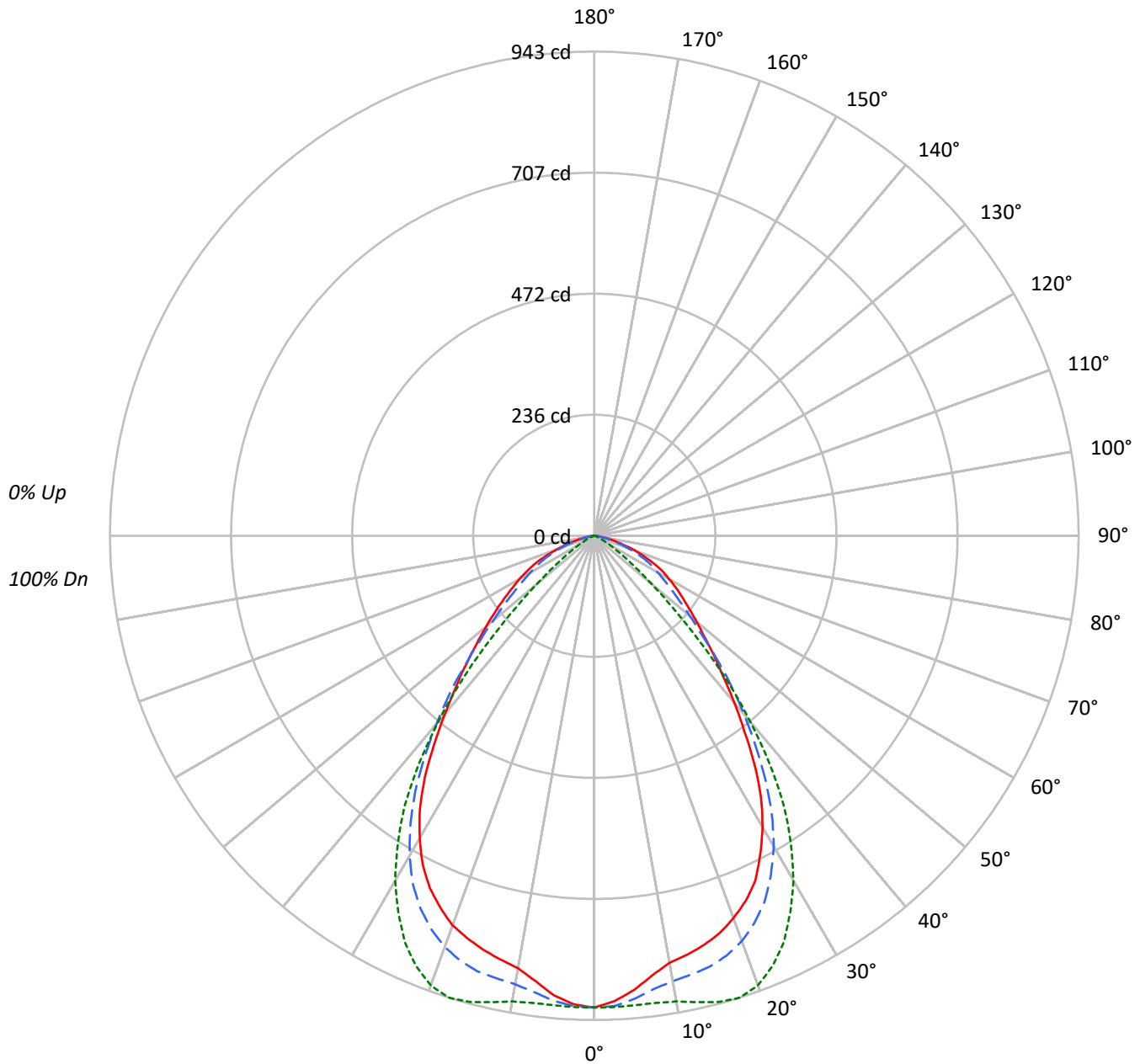
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252567

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1LI

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59943	59943	59943
5°	58148	60093	58843
10°	55939	61007	56641
15°	55736	63490	56384
20°	55014	64672	56042
25°	53370	62843	54507
30°	49358	58414	51212
35°	43310	51355	45843
40°	36093	40249	38444
45°	30373	26563	32431
50°	26298	14555	27922
55°	23795	7735	24398
60°	21895	4019	21895
65°	19837	2130	19358
70°	16004	1221	14783
75°	10965	781	10184
80°	7176	376	6387
85°	4791	749	3892



TEST NUMBER: P252567

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	5.4
10°-20°	247.7	15.6
20°-30°	366.0	23.0
30°-40°	369.7	23.2
40°-50°	254.8	16.0
50°-60°	146.3	9.2
60°-70°	85.2	5.4
70°-80°	31.1	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°	699.4	44.0
0°-40°	1069.1	67.2
0°-60°	1470.2	92.4
0°-90°	1591.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	919	919	919	919	919	
5°	888	905	918	909	898	83
15°	825	869	940	878	835	232
25°	741	785	873	801	757	338
35°	544	581	645	608	576	338
45°	329	334	288	355	352	256
55°	209	184	68	191	214	188
65°	128	108	14	107	125	126
75°	44	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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	907.0	908.1	909.1	908.1	909.1	913.4	910.2	912.4	912.4	913.4	916.6
5°	887.9	887.9	890.0	889.0	892.1	896.4	893.2	896.4	897.5	899.6	904.9
7.5°	863.5	863.5	864.5	864.5	868.8	873.0	870.9	875.1	879.4	883.6	890.0
10°	844.4	846.5	846.5	847.5	851.8	857.1	856.0	861.4	865.6	872.0	880.5
12.5°	835.9	836.9	836.9	839.0	843.2	848.6	847.5	852.9	859.2	866.6	875.1
15°	825.2	827.4	826.2	828.4	832.6	838.0	836.9	842.2	849.6	857.1	868.8
17.5°	811.4	812.5	813.5	813.5	817.8	822.0	822.0	827.4	835.9	844.4	857.1
20°	792.4	794.5	794.5	795.5	798.8	805.1	804.0	809.4	817.8	826.2	840.1
22.5°	770.0	771.1	771.1	772.1	777.5	780.6	781.8	786.0	793.4	803.0	815.6
25°	741.4	742.4	741.4	744.5	746.6	753.0	750.9	756.2	764.8	772.1	784.9
27.5°	699.9	702.0	702.0	703.1	708.4	713.8	713.8	719.0	726.5	731.8	744.5
30°	655.2	658.5	655.2	660.6	662.8	667.0	670.1	673.4	679.8	687.1	698.9
32.5°	604.4	603.2	604.4	606.5	612.9	616.0	618.1	621.4	627.8	634.1	643.6
35°	543.8	545.9	547.0	551.2	551.2	556.5	557.6	559.8	569.2	573.5	581.0
37.5°	480.1	482.2	483.2	485.4	489.6	491.8	494.9	498.1	504.5	511.9	516.1
40°	423.8	423.8	424.9	427.0	430.1	431.2	434.4	438.6	442.9	449.2	453.5
42.5°	370.6	371.8	370.6	372.8	376.0	380.2	379.1	384.5	385.5	389.8	393.0
45°	329.2	329.2	327.1	329.2	329.2	333.5	332.4	334.5	333.5	335.6	333.5
47.5°	290.0	291.0	290.0	291.0	291.0	291.0	292.1	290.0	291.0	287.9	281.5
50°	259.1	260.2	258.1	259.1	258.1	257.0	258.1	254.9	253.9	249.6	243.2
52.5°	232.6	231.5	230.5	230.5	230.5	229.4	228.4	225.1	222.0	217.8	210.2
55°	209.2	208.1	207.1	207.1	205.0	203.9	203.9	200.8	197.5	192.2	183.8
57.5°	188.0	186.9	185.9	185.9	184.8	182.6	182.6	179.5	175.2	168.9	161.5
60°	167.8	167.8	167.8	166.8	166.8	164.6	164.6	161.5	157.2	150.9	142.4
62.5°	149.8	148.8	148.8	148.8	148.8	147.6	146.6	144.5	140.2	133.9	126.4
65°	128.5	128.5	128.5	128.5	127.5	127.5	127.5	124.2	122.1	115.8	108.4
67.5°	105.1	105.1	105.1	105.1	104.1	105.1	105.1	103.0	100.9	94.5	88.1
70°	83.9	82.9	81.8	82.9	81.8	81.8	82.9	80.8	79.6	74.4	68.0
72.5°	61.6	62.6	61.6	61.6	61.6	60.5	61.6	60.5	58.4	54.1	49.9
75°	43.5	44.6	44.6	43.5	43.5	43.5	42.5	42.5	40.4	37.1	35.0
77.5°	29.8	29.8	29.8	29.8	28.6	28.6	28.6	27.6	26.5	24.4	22.2
80°	19.1	19.1	19.1	19.1	18.0	18.0	18.0	17.0	17.0	14.9	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



TEST NUMBER: P252567

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	914.5	915.5	915.5	915.5	918.8	919.8	916.6	913.4	919.8	918.8	920.9
5°	903.9	907.0	909.1	910.2	913.4	915.5	912.4	911.2	916.6	917.6	918.8
7.5°	891.1	896.4	901.8	903.9	908.1	910.2	909.1	909.1	915.5	917.6	917.6
10°	882.6	890.0	896.4	901.8	907.0	910.2	910.2	911.2	918.8	920.9	923.0
12.5°	880.5	890.0	898.5	906.0	910.2	915.5	916.6	919.8	927.2	930.4	930.4
15°	875.1	887.9	898.5	908.1	914.5	920.9	923.0	929.4	937.9	940.0	942.1
17.5°	865.6	878.4	891.1	902.8	911.2	916.6	923.0	929.4	940.0	943.1	944.2
20°	848.6	863.5	876.2	887.9	896.4	903.9	910.2	917.6	927.2	931.5	932.5
22.5°	823.1	838.0	850.8	863.5	872.0	878.4	884.8	893.2	902.8	907.0	907.0
25°	792.4	806.1	819.9	829.5	838.0	845.4	848.6	858.1	867.8	873.0	873.0
27.5°	753.0	765.8	778.5	789.1	794.5	800.9	806.1	814.6	822.0	826.2	830.5
30°	703.1	715.9	727.5	738.1	744.5	750.9	756.2	762.6	770.0	775.4	776.4
32.5°	648.9	659.5	671.2	681.9	688.2	690.4	695.6	702.0	708.4	712.6	713.8
35°	589.5	596.9	604.4	613.9	620.2	620.2	625.6	629.9	635.1	644.8	642.6
37.5°	519.4	530.0	535.2	538.5	542.8	547.0	548.0	553.4	559.8	561.9	565.0
40°	453.5	456.8	459.9	459.9	464.1	464.1	464.1	465.2	471.6	472.6	476.9
42.5°	387.6	387.6	384.5	381.2	382.4	381.2	376.0	376.0	379.1	383.4	383.4
45°	326.0	318.6	309.1	301.6	296.4	294.2	287.9	287.9	286.8	287.9	292.1
47.5°	274.0	261.2	245.4	230.5	225.1	220.9	211.4	207.1	205.0	206.0	208.1
50°	230.5	216.6	198.6	180.5	171.0	165.6	154.0	146.6	145.5	143.4	147.6
52.5°	198.6	181.6	162.5	141.2	131.8	123.2	110.5	104.1	99.9	99.9	100.9
55°	171.0	153.0	131.8	110.5	100.9	94.5	81.8	73.2	69.0	68.0	71.1
57.5°	147.6	130.6	109.4	88.1	78.6	71.1	58.4	51.0	47.8	45.6	46.8
60°	129.6	112.6	91.4	71.1	62.6	54.1	43.5	35.0	30.8	30.8	31.9
62.5°	112.6	96.6	77.5	58.4	51.0	43.5	31.9	24.4	21.2	20.1	21.2
65°	95.6	80.8	64.8	48.9	41.4	35.0	25.5	19.1	14.9	13.8	14.9
67.5°	77.5	65.9	52.0	39.2	32.9	27.6	19.1	13.8	10.6	9.5	10.6
70°	60.5	49.9	39.2	28.6	24.4	20.1	13.8	10.6	7.4	6.4	7.4
72.5°	43.5	36.1	27.6	20.1	17.0	13.8	9.5	7.4	5.2	4.2	5.2
75°	29.8	24.4	18.0	12.8	10.6	9.5	6.4	4.2	3.1	3.1	3.1
77.5°	19.1	14.9	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



TEST NUMBER: P252567

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	916.6	917.6	914.5	918.8	915.5	919.8	919.8	915.5	916.6	914.5	918.8
5°	914.5	914.5	912.4	915.5	911.2	915.5	914.5	907.0	909.1	904.9	909.1
7.5°	914.5	912.4	909.1	912.4	907.0	910.2	906.0	898.5	896.4	891.1	891.1
10°	917.6	914.5	910.2	911.2	906.0	907.0	900.6	890.0	886.9	880.5	878.4
12.5°	925.1	921.9	915.5	917.6	910.2	910.2	901.8	889.0	882.6	874.1	872.0
15°	935.8	930.4	923.0	924.0	916.6	912.4	901.8	886.9	878.4	866.6	863.5
17.5°	937.9	932.5	923.0	923.0	913.4	908.1	895.4	878.4	867.8	856.0	849.6
20°	926.1	920.9	910.2	909.1	900.6	893.2	879.4	862.4	851.8	839.0	833.8
22.5°	901.8	895.4	885.8	884.8	876.2	872.0	857.1	840.1	829.5	816.8	812.5
25°	865.6	862.4	852.9	851.8	844.4	839.0	826.2	810.4	800.9	788.1	783.9
27.5°	823.1	819.9	810.4	810.4	801.9	798.8	787.0	772.1	764.8	753.0	747.8
30°	772.1	767.9	762.6	761.5	754.1	750.9	740.2	726.5	719.0	709.5	707.4
32.5°	711.6	708.4	705.2	704.1	696.8	693.5	686.1	672.2	665.9	657.4	654.2
35°	641.5	639.4	636.2	635.1	632.0	628.8	621.4	610.8	607.5	601.1	598.0
37.5°	560.8	562.9	560.8	560.8	557.6	558.6	552.2	545.9	542.8	538.5	536.4
40°	473.8	478.0	481.1	481.1	480.1	484.4	483.2	478.0	476.9	474.8	473.8
42.5°	385.5	387.6	394.0	398.2	397.2	407.9	408.9	413.1	416.4	414.2	415.2
45°	293.1	299.5	308.0	312.2	317.6	331.4	338.8	347.2	354.8	359.0	357.9
47.5°	211.4	218.8	228.4	234.8	244.2	261.2	280.4	291.0	301.6	307.0	312.2
50°	153.0	160.4	172.0	181.6	188.0	211.4	231.5	245.4	257.0	264.5	269.8
52.5°	107.2	115.8	128.5	137.0	146.6	168.9	192.2	208.1	220.9	230.5	235.8
55°	74.4	83.9	95.6	104.1	114.8	138.1	160.4	177.4	191.1	199.6	206.0
57.5°	52.0	60.5	72.2	79.6	90.2	112.6	134.9	151.9	165.6	174.1	181.6
60°	35.0	43.5	55.2	62.6	71.1	93.5	113.6	131.8	144.5	153.0	160.4
62.5°	24.4	31.9	43.5	51.0	58.4	77.5	96.6	112.6	125.4	134.9	141.2
65°	19.1	25.5	35.0	41.4	48.9	64.8	80.8	94.5	107.2	116.9	121.1
67.5°	13.8	20.1	27.6	32.9	38.2	52.0	65.9	76.5	88.1	95.6	100.9
70°	9.5	13.8	20.1	24.4	28.6	39.2	49.9	59.5	68.0	73.2	77.5
72.5°	7.4	9.5	13.8	17.0	20.1	27.6	36.1	43.5	49.9	54.1	58.4
75°	4.2	6.4	9.5	11.6	13.8	19.1	24.4	29.8	34.0	37.1	39.2
77.5°	2.1	3.1	5.2	6.4	8.5	11.6	15.9	19.1	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	14.9	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



TEST NUMBER: P252567

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	915.5	917.6	916.6	918.8	915.5	914.5	916.6	913.4
5°	903.9	904.9	903.9	903.9	901.8	899.6	901.8	898.5
7.5°	885.8	885.8	882.6	882.6	878.4	876.2	876.2	875.1
10°	870.9	867.8	864.5	865.6	859.2	857.1	856.0	855.0
12.5°	863.5	861.4	856.0	856.0	849.6	847.5	846.5	845.4
15°	855.0	850.8	846.5	845.4	840.1	838.0	836.9	834.8
17.5°	840.1	836.9	831.6	831.6	826.2	825.2	823.1	822.0
20°	824.1	819.9	815.6	815.6	809.4	809.4	806.1	807.2
22.5°	801.9	798.8	794.5	794.5	789.1	788.1	784.9	783.9
25°	775.4	771.1	767.9	766.9	762.6	760.5	759.4	757.2
27.5°	740.2	737.1	733.9	731.8	726.5	725.4	722.2	723.2
30°	696.8	694.6	693.5	691.4	685.0	682.9	682.9	679.8
32.5°	648.9	645.8	643.6	640.5	635.1	634.1	630.9	632.0
35°	590.5	586.2	583.1	584.1	577.8	576.8	574.6	575.6
37.5°	530.0	525.8	521.5	520.4	515.1	515.1	511.9	511.9
40°	467.4	463.1	461.0	461.0	454.6	455.6	452.5	451.4
42.5°	411.0	406.8	405.8	404.6	401.5	400.4	397.2	398.2
45°	357.9	356.9	356.9	354.8	351.5	350.5	351.5	351.5
47.5°	311.2	312.2	311.2	311.2	309.1	311.2	309.1	310.1
50°	271.9	274.0	274.0	274.0	273.0	274.0	274.0	275.1
52.5°	239.0	242.1	241.1	242.1	241.1	243.2	242.1	243.2
55°	210.2	212.4	213.5	214.5	214.5	214.5	214.5	214.5
57.5°	183.8	186.9	188.0	189.0	189.0	191.1	189.0	189.0
60°	162.5	165.6	166.8	167.8	167.8	168.9	166.8	167.8
62.5°	143.4	146.6	146.6	147.6	147.6	147.6	145.5	146.6
65°	124.2	125.4	126.4	126.4	125.4	125.4	124.2	125.4
67.5°	103.0	104.1	103.0	103.0	102.0	102.0	99.9	100.9
70°	79.6	79.6	80.8	79.6	78.6	79.6	78.6	77.5
72.5°	59.5	59.5	59.5	58.4	58.4	57.4	58.4	58.4
75°	40.4	40.4	41.4	41.4	41.4	41.4	40.4	40.4
77.5°	26.5	26.5	26.5	26.5	27.6	26.5	26.5	26.5
80°	17.0	17.0	18.0	18.0	17.0	17.0	17.0	17.0
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)