

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: P252549

Luminaire Tested: **LE_6B10D010 EC6B10209024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252549
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_6B10D010 EC6B10209024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.2 lumens
Efficiency: N/A
Efficacy: 95.6 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

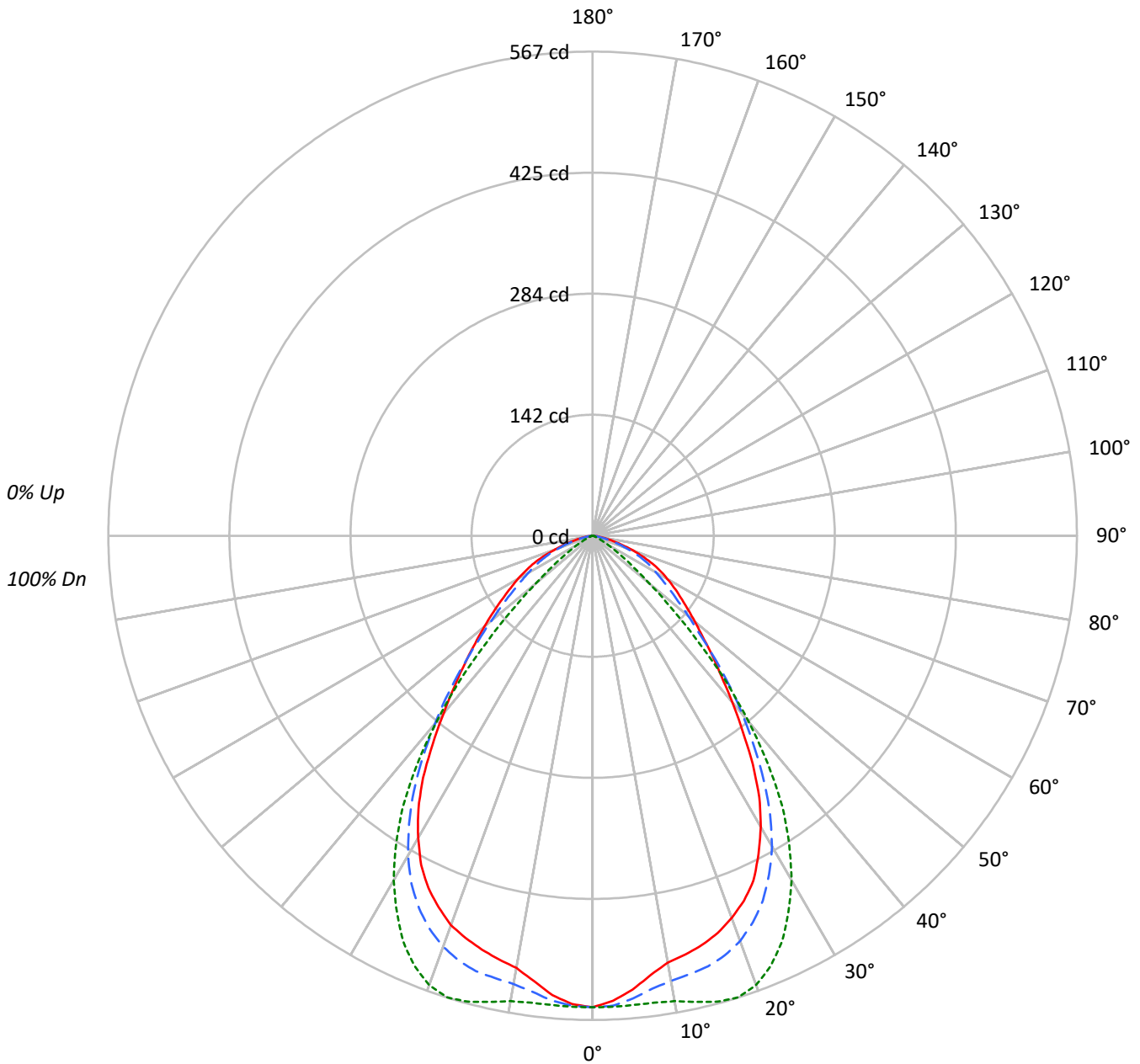
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	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°	36019	36019	36019
5°	34945	36118	35365
10°	33614	36661	34038
15°	33494	38155	33879
20°	33054	38866	33679
25°	32069	37763	32760
30°	29666	35098	30774
35°	26028	30854	27549
40°	21683	24187	23097
45°	18259	15962	19486
50°	15813	8739	16767
55°	14309	4652	14662
60°	13166	2414	13166
65°	11918	1266	11640
70°	9614	744	8889
75°	6579	479	6100
80°	4321	225	3832
85°	2919	449	2395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	5.4
10°-20°	148.9	15.6
20°-30°	219.9	23.0
30°-40°	222.2	23.2
40°-50°	153.1	16.0
50°-60°	87.9	9.2
60°-70°	51.2	5.4
70°-80°	18.7	2.0
80°-90°	2.8	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°	420.3	44.0
0°-40°	642.5	67.2
0°-60°	883.5	92.4
0°-90°	956.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	534	544	552	546	540	50
15°	496	522	565	528	502	140
25°	446	472	525	481	455	203
35°	327	349	387	365	346	203
45°	198	200	173	213	211	154
55°	126	110	41	115	129	113
65°	77	65	8	64	75	76
75°	26	21	2	20	24	29
85°	4	2	1	2	3	5
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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	545.1	545.8	546.4	545.8	546.4	548.9	547.0	548.2	548.2	548.9	550.9
5°	533.6	533.6	534.9	534.2	536.1	538.6	536.8	538.6	539.4	540.6	543.8
7.5°	518.9	518.9	519.5	519.5	522.1	524.6	523.4	525.9	528.5	531.0	534.9
10°	507.4	508.8	508.8	509.4	511.9	515.1	514.4	517.6	520.1	524.0	529.1
12.5°	502.2	503.0	503.0	504.2	506.8	510.0	509.4	512.5	516.4	520.9	525.9
15°	495.9	497.2	496.6	497.9	500.4	503.6	503.0	506.1	510.6	515.1	522.1
17.5°	487.6	488.2	488.9	488.9	491.5	494.0	494.0	497.2	502.2	507.4	515.1
20°	476.1	477.4	477.4	478.0	480.0	483.8	483.1	486.4	491.5	496.6	504.9
22.5°	462.8	463.4	463.4	464.0	467.2	469.1	469.8	472.2	476.8	482.5	490.1
25°	445.5	446.1	445.5	447.4	448.8	452.5	451.2	454.5	459.5	464.0	471.6
27.5°	420.6	421.9	421.9	422.5	425.8	428.9	428.9	432.1	436.6	439.8	447.4
30°	393.8	395.8	393.8	397.0	398.2	400.9	402.8	404.6	408.5	413.0	420.0
32.5°	363.1	362.5	363.1	364.5	368.2	370.2	371.5	373.4	377.2	381.0	386.8
35°	326.8	328.1	328.8	331.2	331.2	334.5	335.1	336.4	342.1	344.6	349.1
37.5°	288.5	289.8	290.4	291.6	294.2	295.5	297.4	299.4	303.1	307.6	310.2
40°	254.6	254.6	255.2	256.6	258.5	259.1	261.0	263.6	266.1	270.0	272.5
42.5°	222.8	223.4	222.8	224.0	226.0	228.5	227.9	231.0	231.6	234.2	236.1
45°	197.9	197.9	196.6	197.9	197.9	200.4	199.8	201.0	200.4	201.8	200.4
47.5°	174.2	174.9	174.2	174.9	174.9	174.9	175.5	174.2	174.9	173.0	169.1
50°	155.8	156.4	155.1	155.8	155.1	154.5	155.1	153.1	152.5	150.0	146.1
52.5°	139.8	139.1	138.5	138.5	138.5	137.9	137.2	135.2	133.4	130.9	126.4
55°	125.8	125.1	124.5	124.5	123.1	122.5	122.5	120.6	118.8	115.5	110.4
57.5°	113.0	112.4	111.8	111.8	111.0	109.8	109.8	107.9	105.2	101.5	97.0
60°	100.9	100.9	100.9	100.2	100.2	98.9	98.9	97.0	94.5	90.6	85.5
62.5°	90.0	89.4	89.4	89.4	89.4	88.8	88.1	86.8	84.2	80.4	76.0
65°	77.2	77.2	77.2	77.2	76.6	76.6	76.6	74.6	73.4	69.6	65.1
67.5°	63.1	63.1	63.1	63.1	62.5	63.1	63.1	61.9	60.6	56.8	53.0
70°	50.4	49.8	49.1	49.8	49.1	49.1	49.8	48.5	47.9	44.6	40.9
72.5°	37.0	37.6	37.0	37.0	37.0	36.4	37.0	36.4	35.1	32.5	30.0
75°	26.1	26.8	26.8	26.1	26.1	26.1	25.5	25.5	24.2	22.4	21.0
77.5°	17.9	17.9	17.9	17.9	17.2	17.2	17.2	16.6	16.0	14.6	13.4
80°	11.5	11.5	11.5	11.5	10.9	10.9	10.9	10.2	10.2	8.9	7.6
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.4	6.4	5.8	5.1	4.5
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.2	3.2	2.5	1.9
87.5°	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	549.5	550.1	550.1	550.1	552.1	552.8	550.9	548.9	552.8	552.1	553.4
5°	543.1	545.1	546.4	547.0	548.9	550.1	548.2	547.6	550.9	551.5	552.1
7.5°	535.5	538.6	541.9	543.1	545.8	547.0	546.4	546.4	550.1	551.5	551.5
10°	530.4	534.9	538.6	541.9	545.1	547.0	547.0	547.6	552.1	553.4	554.6
12.5°	529.1	534.9	540.0	544.4	547.0	550.1	550.9	552.8	557.2	559.1	559.1
15°	525.9	533.6	540.0	545.8	549.5	553.4	554.6	558.5	563.6	564.9	566.1
17.5°	520.1	527.9	535.5	542.5	547.6	550.9	554.6	558.5	564.9	566.8	567.4
20°	510.0	518.9	526.5	533.6	538.6	543.1	547.0	551.5	557.2	559.8	560.4
22.5°	494.6	503.6	511.2	518.9	524.0	527.9	531.6	536.8	542.5	545.1	545.1
25°	476.1	484.4	492.8	498.5	503.6	508.0	510.0	515.8	521.5	524.6	524.6
27.5°	452.5	460.1	467.9	474.2	477.4	481.2	484.4	489.5	494.0	496.6	499.1
30°	422.5	430.1	437.2	443.6	447.4	451.2	454.5	458.2	462.8	465.9	466.6
32.5°	390.0	396.4	403.4	409.8	413.6	414.9	418.0	421.9	425.8	428.2	428.9
35°	354.2	358.8	363.1	368.9	372.8	372.8	375.9	378.5	381.6	387.4	386.1
37.5°	312.1	318.5	321.6	323.6	326.1	328.8	329.4	332.5	336.4	337.6	339.5
40°	272.5	274.5	276.4	276.4	278.9	278.9	278.9	279.5	283.4	284.0	286.6
42.5°	233.0	233.0	231.0	229.1	229.8	229.1	226.0	226.0	227.9	230.4	230.4
45°	196.0	191.5	185.8	181.2	178.1	176.8	173.0	173.0	172.4	173.0	175.5
47.5°	164.6	157.0	147.4	138.5	135.2	132.8	127.0	124.5	123.1	123.9	125.1
50°	138.5	130.2	119.4	108.5	102.8	99.6	92.5	88.1	87.5	86.1	88.8
52.5°	119.4	109.1	97.6	84.9	79.1	74.0	66.4	62.5	60.0	60.0	60.6
55°	102.8	91.9	79.1	66.4	60.6	56.8	49.1	44.0	41.5	40.9	42.8
57.5°	88.8	78.5	65.8	53.0	47.2	42.8	35.1	30.6	28.8	27.5	28.1
60°	77.9	67.6	54.9	42.8	37.6	32.5	26.1	21.0	18.5	18.5	19.1
62.5°	67.6	58.1	46.6	35.1	30.6	26.1	19.1	14.6	12.8	12.1	12.8
65°	57.5	48.5	38.9	29.4	24.9	21.0	15.4	11.5	8.9	8.2	8.9
67.5°	46.6	39.6	31.2	23.6	19.8	16.6	11.5	8.2	6.4	5.8	6.4
70°	36.4	30.0	23.6	17.2	14.6	12.1	8.2	6.4	4.5	3.9	4.5
72.5°	26.1	21.8	16.6	12.1	10.2	8.2	5.8	4.5	3.2	2.5	3.2
75°	17.9	14.6	10.9	7.6	6.4	5.8	3.9	2.5	1.9	1.9	1.9
77.5°	11.5	8.9	7.0	5.1	3.9	3.2	1.9	1.2	1.2	1.2	1.2
80°	6.4	5.1	3.9	2.5	1.9	1.9	1.2	1.2	0.6	0.6	0.6
82.5°	3.9	2.5	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
85°	1.9	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	550.9	551.5	549.5	552.1	550.1	552.8	552.8	550.1	550.9	549.5	552.1
5°	549.5	549.5	548.2	550.1	547.6	550.1	549.5	545.1	546.4	543.8	546.4
7.5°	549.5	548.2	546.4	548.2	545.1	547.0	544.4	540.0	538.6	535.5	535.5
10°	551.5	549.5	547.0	547.6	544.4	545.1	541.2	534.9	533.0	529.1	527.9
12.5°	555.9	554.0	550.1	551.5	547.0	547.0	541.9	534.2	530.4	525.2	524.0
15°	562.2	559.1	554.6	555.2	550.9	548.2	541.9	533.0	527.9	520.9	518.9
17.5°	563.6	560.4	554.6	554.6	548.9	545.8	538.0	527.9	521.5	514.4	510.6
20°	556.5	553.4	547.0	546.4	541.2	536.8	528.5	518.2	511.9	504.2	501.0
22.5°	541.9	538.0	532.2	531.6	526.5	524.0	515.1	504.9	498.5	490.9	488.2
25°	520.1	518.2	512.5	511.9	507.4	504.2	496.6	487.0	481.2	473.6	471.0
27.5°	494.6	492.8	487.0	487.0	481.9	480.0	473.0	464.0	459.5	452.5	449.4
30°	464.0	461.5	458.2	457.6	453.1	451.2	444.9	436.6	432.1	426.4	425.1
32.5°	427.6	425.8	423.8	423.1	418.8	416.8	412.4	404.0	400.1	395.1	393.1
35°	385.5	384.2	382.4	381.6	379.8	377.9	373.4	367.0	365.1	361.2	359.4
37.5°	337.0	338.2	337.0	337.0	335.1	335.8	331.9	328.1	326.1	323.6	322.4
40°	284.6	287.2	289.1	289.1	288.5	291.0	290.4	287.2	286.6	285.2	284.6
42.5°	231.6	233.0	236.8	239.4	238.8	245.1	245.8	248.2	250.2	248.9	249.5
45°	176.1	180.0	185.1	187.6	190.9	199.1	203.6	208.8	213.1	215.8	215.1
47.5°	127.0	131.5	137.2	141.0	146.8	157.0	168.5	174.9	181.2	184.5	187.6
50°	91.9	96.4	103.4	109.1	113.0	127.0	139.1	147.4	154.5	158.9	162.1
52.5°	64.5	69.6	77.2	82.4	88.1	101.5	115.5	125.1	132.8	138.5	141.8
55°	44.6	50.4	57.5	62.5	68.9	83.0	96.4	106.6	114.9	120.0	123.9
57.5°	31.2	36.4	43.4	47.9	54.2	67.6	81.0	91.2	99.6	104.6	109.1
60°	21.0	26.1	33.2	37.6	42.8	56.1	68.2	79.1	86.8	91.9	96.4
62.5°	14.6	19.1	26.1	30.6	35.1	46.6	58.1	67.6	75.4	81.0	84.9
65°	11.5	15.4	21.0	24.9	29.4	38.9	48.5	56.8	64.5	70.2	72.8
67.5°	8.2	12.1	16.6	19.8	23.0	31.2	39.6	46.0	53.0	57.5	60.6
70°	5.8	8.2	12.1	14.6	17.2	23.6	30.0	35.8	40.9	44.0	46.6
72.5°	4.5	5.8	8.2	10.2	12.1	16.6	21.8	26.1	30.0	32.5	35.1
75°	2.5	3.9	5.8	7.0	8.2	11.5	14.6	17.9	20.4	22.4	23.6
77.5°	1.2	1.9	3.2	3.9	5.1	7.0	9.6	11.5	13.4	14.6	16.0
80°	1.2	1.2	1.9	1.9	2.5	3.9	5.1	6.4	7.6	8.9	9.6
82.5°	0.6	0.6	1.2	1.2	1.2	1.9	2.5	3.9	4.5	5.1	5.8
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9	2.5	3.2	3.2
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.9
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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CATALOG NUMBER: LE_6B10D010 EC6B10209024 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	550.1	551.5	550.9	552.1	550.1	549.5	550.9	548.9
5°	543.1	543.8	543.1	543.1	541.9	540.6	541.9	540.0
7.5°	532.2	532.2	530.4	530.4	527.9	526.5	526.5	525.9
10°	523.4	521.5	519.5	520.1	516.4	515.1	514.4	513.8
12.5°	518.9	517.6	514.4	514.4	510.6	509.4	508.8	508.0
15°	513.8	511.2	508.8	508.0	504.9	503.6	503.0	501.6
17.5°	504.9	503.0	499.8	499.8	496.6	495.9	494.6	494.0
20°	495.2	492.8	490.1	490.1	486.4	486.4	484.4	485.1
22.5°	481.9	480.0	477.4	477.4	474.2	473.6	471.6	471.0
25°	465.9	463.4	461.5	460.9	458.2	457.0	456.4	455.1
27.5°	444.9	443.0	441.0	439.8	436.6	435.9	434.0	434.6
30°	418.8	417.4	416.8	415.5	411.6	410.4	410.4	408.5
32.5°	390.0	388.0	386.8	384.9	381.6	381.0	379.1	379.8
35°	354.9	352.4	350.4	351.0	347.2	346.6	345.2	345.9
37.5°	318.5	315.9	313.4	312.8	309.5	309.5	307.6	307.6
40°	280.9	278.2	277.0	277.0	273.1	273.8	271.9	271.2
42.5°	247.0	244.5	243.9	243.1	241.2	240.6	238.8	239.4
45°	215.1	214.5	214.5	213.1	211.2	210.6	211.2	211.2
47.5°	187.0	187.6	187.0	187.0	185.8	187.0	185.8	186.4
50°	163.4	164.6	164.6	164.6	164.0	164.6	164.6	165.2
52.5°	143.6	145.5	144.9	145.5	144.9	146.1	145.5	146.1
55°	126.4	127.6	128.2	128.9	128.9	128.9	128.9	128.9
57.5°	110.4	112.4	113.0	113.6	113.6	114.9	113.6	113.6
60°	97.6	99.6	100.2	100.9	100.9	101.5	100.2	100.9
62.5°	86.1	88.1	88.1	88.8	88.8	88.8	87.5	88.1
65°	74.6	75.4	76.0	76.0	75.4	75.4	74.6	75.4
67.5°	61.9	62.5	61.9	61.9	61.2	61.2	60.0	60.6
70°	47.9	47.9	48.5	47.9	47.2	47.9	47.2	46.6
72.5°	35.8	35.8	35.8	35.1	35.1	34.5	35.1	35.1
75°	24.2	24.2	24.9	24.9	24.9	24.9	24.2	24.2
77.5°	16.0	16.0	16.0	16.0	16.6	16.0	16.0	16.0
80°	10.2	10.2	10.9	10.9	10.2	10.2	10.2	10.2
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.9	3.9	3.9	3.9	3.2	3.2	3.2	3.2
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2
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)