

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: P252361

Luminaire Tested: **LE_6B15D010 EC6B10209730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252361
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 EC6B10209730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.2 lumens
Efficiency: N/A
Efficacy: 85.9 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

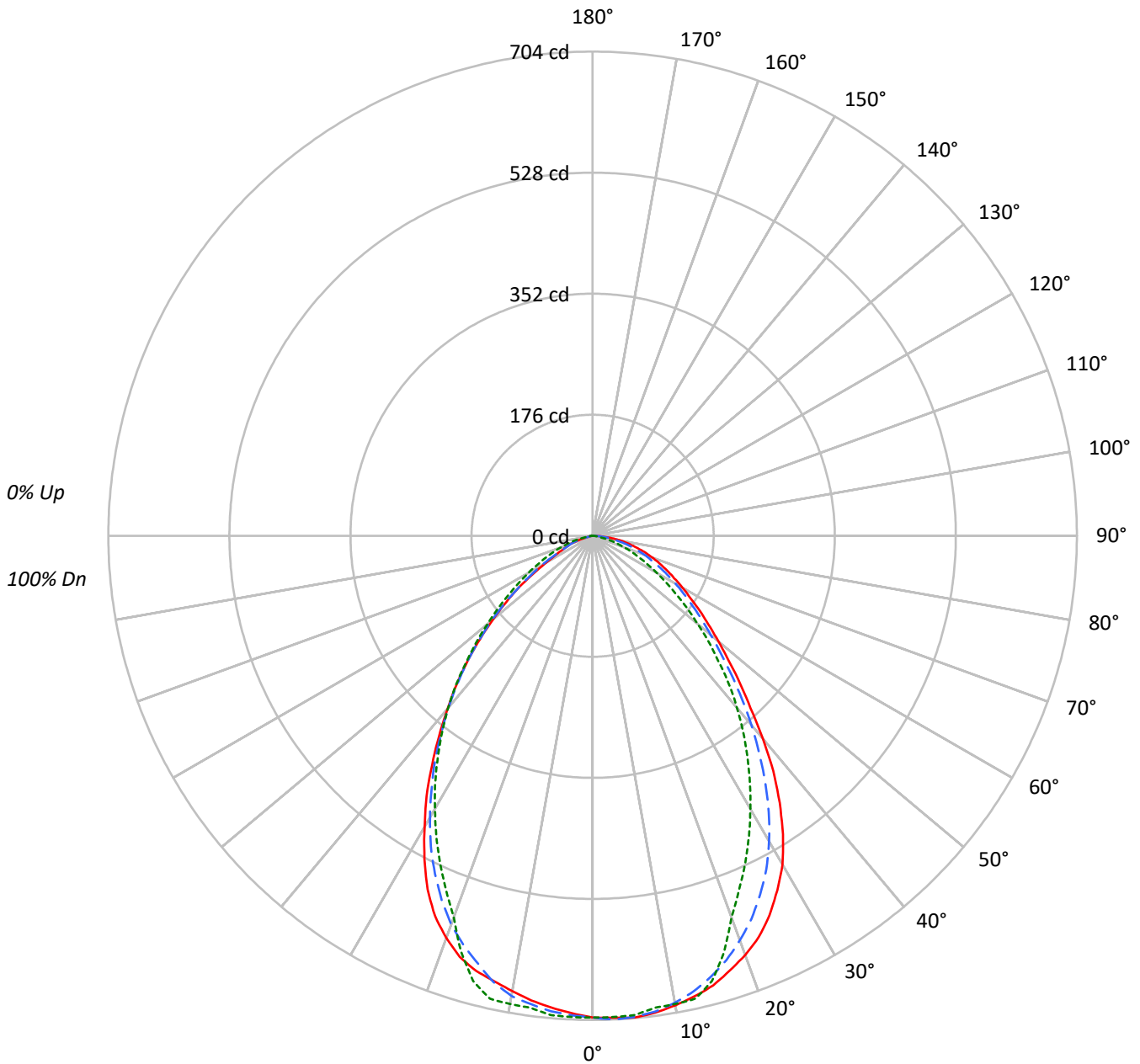
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45701	45701	45701
5°	46052	45810	45096
10°	45922	45803	44531
15°	45719	45287	44240
20°	45031	40990	43198
25°	43810	37785	40859
30°	41599	34540	36800
35°	37751	31228	32383
40°	32772	27815	27892
45°	27947	23915	23666
50°	24197	20218	19102
55°	21623	16857	14798
60°	19703	14014	9969
65°	18386	11516	7441
70°	17530	9366	6257
75°	16511	6655	2042
80°	15742	3419	714
85°	12875	2096	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	5.4
10°-20°	185.0	15.0
20°-30°	255.4	20.7
30°-40°	259.9	21.0
40°-50°	208.8	16.9
50°-60°	138.9	11.2
60°-70°	79.1	6.4
70°-80°	35.5	2.9
80°-90°	7.5	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°	506.5	41.0
0°-40°	766.4	62.0
0°-60°	1114.1	90.1
0°-90°	1236.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	700	700	700	700	700	
5°	703	702	700	694	689	67
15°	677	664	670	644	655	190
25°	609	576	525	542	568	279
35°	474	438	392	399	407	295
45°	303	285	259	256	256	235
55°	190	177	148	132	130	171
65°	119	106	75	48	48	119
75°	66	55	26	11	8	70
85°	17	12	3	1	0	21
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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	701.4	705.0	704.1	703.2	704.1	703.2	701.4	701.4	699.5	699.5	704.1
5°	703.2	705.0	704.1	703.2	703.2	704.1	700.5	700.5	698.6	697.8	702.2
7.5°	699.5	702.2	700.5	700.5	699.5	700.5	696.9	696.9	694.1	693.2	697.8
10°	693.2	696.9	695.0	695.0	695.0	693.2	691.4	690.5	687.8	686.9	689.5
12.5°	685.9	688.6	687.8	685.9	685.9	685.9	682.2	681.4	677.8	675.9	678.6
15°	676.9	678.6	677.8	676.9	675.0	675.0	671.4	669.5	665.9	662.2	664.1
17.5°	663.1	665.9	664.1	663.1	660.5	660.5	656.8	655.0	649.5	645.9	646.8
20°	648.6	649.5	648.6	646.8	644.1	643.1	639.5	635.9	631.4	626.8	625.9
22.5°	631.4	632.2	629.5	627.8	625.0	624.0	619.5	616.8	609.5	604.0	603.1
25°	608.6	609.5	609.5	605.0	603.1	601.2	596.8	592.2	585.9	578.6	575.9
27.5°	581.2	584.0	582.2	577.6	574.0	573.1	568.6	564.9	556.8	550.4	546.8
30°	552.2	551.2	550.4	547.6	542.1	541.2	536.8	532.1	525.8	517.6	513.1
32.5°	514.9	514.9	514.0	511.2	505.8	504.0	500.4	494.9	487.6	481.2	476.6
35°	474.0	474.9	474.0	468.5	464.9	463.0	461.2	454.9	448.5	441.2	437.6
37.5°	431.2	428.5	429.4	424.9	420.2	422.1	416.6	413.9	406.6	401.1	397.5
40°	384.8	386.6	383.0	381.1	378.4	375.8	375.8	371.1	367.5	361.1	359.4
42.5°	339.4	342.0	341.1	339.4	335.6	336.6	332.0	330.2	325.6	323.0	320.2
45°	302.9	302.9	302.9	301.1	300.2	298.4	295.6	292.9	290.2	286.5	284.8
47.5°	267.5	267.5	268.4	266.5	264.8	263.9	262.0	262.0	257.5	253.8	252.0
50°	238.4	238.4	238.4	236.5	234.8	234.8	232.9	231.1	228.4	225.6	223.8
52.5°	212.0	212.0	212.0	210.1	209.2	208.4	207.4	206.5	202.9	201.0	199.2
55°	190.1	189.2	189.2	188.2	186.5	186.5	185.6	183.8	181.0	178.2	177.4
57.5°	168.2	169.2	168.2	168.2	166.5	166.5	164.6	163.8	161.0	159.2	157.4
60°	151.0	151.0	151.0	150.1	148.2	149.2	147.4	146.5	143.8	141.0	139.1
62.5°	133.8	134.6	134.6	133.8	131.9	131.9	131.0	130.1	127.4	124.6	121.9
65°	119.1	119.1	119.1	118.2	117.4	117.4	116.5	115.5	112.8	109.1	106.4
67.5°	105.5	104.6	104.6	104.6	103.8	102.8	101.9	101.0	98.2	95.5	91.9
70°	91.9	91.9	91.9	91.0	89.1	90.0	89.1	88.2	85.5	82.8	80.0
72.5°	79.1	79.1	78.2	77.4	77.4	76.4	76.4	75.5	72.8	69.1	66.4
75°	65.5	65.5	65.5	65.5	63.6	64.6	62.8	61.9	60.0	57.2	54.6
77.5°	53.6	53.6	53.6	52.8	51.9	51.9	51.0	50.0	47.2	45.5	41.9
80°	41.9	41.9	41.9	41.9	40.9	40.0	39.1	38.2	36.4	33.6	30.9
82.5°	30.9	30.9	30.0	30.0	30.0	29.1	28.2	27.2	25.5	23.6	21.9
85°	17.2	18.2	18.2	16.4	17.2	16.4	16.4	14.5	14.5	12.8	11.9
87.5°	6.4	5.5	5.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5	3.6
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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	700.5	699.5	703.2	703.2	697.8	700.5	701.4	699.5	699.5	700.5	697.8
5°	698.6	696.9	700.5	701.4	695.9	698.6	699.5	697.8	698.6	699.5	695.9
7.5°	692.2	692.2	695.0	695.9	690.5	693.2	693.2	691.4	692.2	692.2	689.5
10°	685.9	683.1	685.9	685.9	681.4	682.2	684.1	683.1	686.9	691.4	691.4
12.5°	674.1	671.4	675.9	675.9	673.1	676.9	681.4	684.1	687.8	689.5	684.1
15°	659.5	660.5	668.6	675.0	672.2	677.8	682.2	680.5	675.9	670.5	662.2
17.5°	640.4	637.8	645.0	648.6	645.0	646.8	650.4	646.8	639.5	635.0	624.0
20°	618.6	611.4	611.4	609.5	603.1	603.1	602.2	595.9	593.1	590.4	585.9
22.5°	594.0	585.9	583.1	577.6	572.2	571.2	568.6	562.2	558.5	556.8	551.2
25°	565.9	558.5	554.0	548.5	540.4	538.5	535.9	529.5	527.6	524.9	520.4
27.5°	536.8	527.6	521.2	515.8	508.5	507.6	502.1	497.6	494.0	492.1	488.5
30°	503.1	493.0	488.5	481.2	475.8	474.0	469.4	463.0	460.2	458.5	455.8
32.5°	465.8	457.6	453.0	446.6	439.4	440.2	434.9	429.4	427.5	425.8	423.0
35°	429.4	421.2	415.8	410.2	405.8	403.9	400.2	395.8	393.0	392.1	390.2
37.5°	389.4	383.0	378.4	373.0	369.4	367.5	365.8	361.1	359.4	359.4	355.8
40°	350.2	344.8	341.1	338.4	333.9	333.0	331.1	328.4	327.5	326.6	323.9
42.5°	314.8	307.5	304.8	302.9	300.2	298.4	297.5	295.6	294.8	293.9	291.1
45°	281.1	274.8	272.0	270.1	267.5	266.5	265.6	262.9	261.1	259.2	258.4
47.5°	248.4	243.8	242.9	238.4	236.5	234.8	232.9	231.1	230.1	229.2	225.6
50°	220.1	217.4	212.9	210.1	208.4	207.4	203.8	201.0	200.1	199.2	196.5
52.5°	194.6	191.0	188.2	183.8	182.9	181.0	179.2	175.6	173.8	172.9	170.1
55°	171.9	169.2	165.6	161.9	159.2	158.2	155.5	151.9	150.1	148.2	146.5
57.5°	152.9	148.2	144.6	141.0	139.1	136.5	133.8	131.9	129.1	126.5	123.8
60°	134.6	131.0	126.5	122.8	121.0	119.1	115.5	112.8	110.1	107.4	104.6
62.5°	117.4	113.8	109.1	105.5	103.8	101.9	98.2	95.5	92.8	90.0	86.4
65°	101.9	98.2	94.6	91.0	89.1	87.4	83.8	80.0	77.4	74.6	71.0
67.5°	89.1	84.6	81.0	77.4	75.5	73.6	70.0	67.4	63.6	61.0	57.2
70°	75.5	71.9	69.1	65.5	63.6	61.9	58.2	54.6	51.9	49.1	45.5
72.5°	63.6	59.1	56.4	52.8	51.0	50.0	46.4	43.6	40.9	37.2	34.6
75°	51.0	47.2	43.6	40.9	39.1	38.2	34.6	31.9	29.1	26.4	23.6
77.5°	39.1	36.4	32.8	30.0	28.2	27.2	23.6	20.9	18.2	16.4	13.6
80°	29.1	25.5	23.6	20.9	20.0	18.2	16.4	13.6	11.9	9.1	7.2
82.5°	20.0	17.2	15.5	13.6	12.8	11.9	10.0	8.1	6.4	5.5	4.5
85°	10.9	9.1	8.1	7.2	6.4	6.4	5.5	4.5	3.6	2.8	1.9
87.5°	3.6	2.8	2.8	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9
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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	699.5	699.5	699.5	698.6	698.6	698.6	697.8	701.4	697.8	696.9	699.5
5°	698.6	696.9	696.9	696.9	696.9	695.9	695.0	696.9	694.1	693.2	693.2
7.5°	693.2	692.2	692.2	691.4	690.5	689.5	688.6	689.5	686.9	685.9	685.9
10°	694.1	692.2	692.2	689.5	687.8	685.0	682.2	683.1	679.5	676.9	676.9
12.5°	683.1	678.6	675.9	673.1	671.4	670.5	666.8	668.6	665.0	664.1	664.1
15°	658.6	653.1	648.6	646.8	646.8	645.0	642.2	645.9	644.1	645.0	649.5
17.5°	620.4	617.6	615.0	614.0	615.0	616.8	618.6	624.0	624.0	626.8	631.4
20°	586.8	585.0	586.8	586.8	587.6	591.2	595.0	599.5	601.2	604.0	610.4
22.5°	554.0	554.0	555.9	558.5	557.6	564.0	564.9	573.1	573.1	578.6	584.0
25°	522.1	522.1	524.0	524.9	526.8	530.4	534.0	540.4	542.1	547.6	552.2
27.5°	491.2	490.4	490.4	491.2	493.0	497.6	499.4	506.8	509.4	513.1	517.6
30°	456.6	455.8	457.6	459.4	458.5	463.0	465.8	471.2	473.0	476.6	480.4
32.5°	423.9	423.9	423.9	425.8	425.8	429.4	429.4	435.8	435.8	438.5	442.1
35°	390.2	390.2	391.1	392.1	393.0	393.9	394.8	398.5	399.4	400.2	402.1
37.5°	358.4	357.5	358.4	358.4	356.6	360.2	360.2	363.9	361.1	363.9	364.8
40°	325.6	325.6	324.8	324.8	324.8	326.6	324.8	327.5	325.6	327.5	326.6
42.5°	292.0	292.0	290.2	292.0	291.1	291.1	291.1	292.9	290.2	292.0	292.9
45°	258.4	257.5	257.5	256.5	256.5	256.5	257.5	257.5	256.5	258.4	258.4
47.5°	225.6	224.8	224.8	224.8	224.8	225.6	222.9	224.8	222.9	222.9	222.9
50°	197.4	196.5	195.6	194.6	193.8	193.8	192.9	192.9	191.0	190.1	189.2
52.5°	170.1	169.2	167.4	167.4	166.5	165.6	162.9	162.9	160.1	159.2	159.2
55°	145.5	142.9	141.9	140.1	140.1	138.2	136.5	134.6	131.9	130.1	130.1
57.5°	122.8	120.1	118.2	117.4	116.5	114.6	111.0	110.1	106.4	105.5	104.6
60°	102.8	100.1	97.4	95.5	94.6	91.9	88.2	86.4	84.6	81.9	79.1
62.5°	83.8	81.0	77.4	76.4	74.6	71.9	69.1	66.4	64.6	61.9	60.0
65°	67.4	64.6	61.9	60.0	58.2	55.5	52.8	50.0	48.2	47.2	46.4
67.5°	54.6	51.0	48.2	47.2	45.5	43.6	40.9	40.0	38.2	38.2	38.2
70°	42.8	40.0	37.2	36.4	35.5	33.6	31.9	31.9	31.9	31.9	31.9
72.5°	31.9	30.0	27.2	26.4	25.5	24.5	22.8	23.6	22.8	22.8	22.8
75°	20.0	18.2	16.4	15.5	14.5	13.6	12.8	11.9	10.9	10.0	10.0
77.5°	10.9	9.1	8.1	7.2	7.2	6.4	5.5	5.5	4.5	4.5	4.5
80°	6.4	5.5	4.5	3.6	3.6	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	3.6	2.8	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
85°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	695.0	697.8	695.0	697.8	697.8	697.8	697.8	695.0
5°	690.5	692.2	689.5	691.4	692.2	691.4	691.4	688.6
7.5°	682.2	684.1	681.4	684.1	685.0	684.1	683.1	681.4
10°	674.1	675.0	672.2	674.1	675.9	675.9	675.0	672.2
12.5°	661.4	664.1	661.4	663.1	665.0	665.9	665.9	663.1
15°	646.8	651.4	649.5	652.2	655.0	655.9	655.9	655.0
17.5°	632.2	636.8	634.0	638.6	641.4	643.1	644.1	642.2
20°	611.4	616.8	615.0	618.6	622.2	625.0	625.0	622.2
22.5°	584.0	591.2	590.4	593.1	597.6	598.6	600.4	598.6
25°	554.0	559.5	558.5	561.2	566.8	566.8	567.6	567.6
27.5°	519.5	524.9	524.0	525.8	529.5	530.4	531.2	529.5
30°	482.1	484.9	484.9	487.6	490.4	491.2	491.2	488.5
32.5°	441.2	444.9	446.6	445.8	448.5	450.2	449.4	449.4
35°	403.9	404.9	405.8	406.6	407.5	409.4	407.5	406.6
37.5°	363.9	366.6	364.8	366.6	368.4	367.5	366.6	366.6
40°	327.5	328.4	326.6	328.4	329.2	329.2	329.2	327.5
42.5°	291.1	292.9	291.1	292.9	292.9	292.9	292.9	292.0
45°	254.8	256.5	256.5	257.5	257.5	256.5	256.5	256.5
47.5°	221.0	222.9	221.0	222.9	223.8	222.0	222.0	222.0
50°	189.2	188.2	188.2	189.2	189.2	189.2	189.2	188.2
52.5°	156.5	157.4	157.4	157.4	158.2	157.4	158.2	158.2
55°	128.2	128.2	128.2	129.1	128.2	128.2	129.1	130.1
57.5°	102.8	101.9	101.0	101.0	101.9	101.0	101.0	101.0
60°	79.1	78.2	77.4	77.4	77.4	77.4	77.4	76.4
62.5°	59.1	59.1	59.1	60.0	60.0	60.0	60.0	61.0
65°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	48.2
67.5°	38.2	38.2	38.2	39.1	39.1	39.1	39.1	39.1
70°	31.9	31.9	32.8	31.9	32.8	32.8	32.8	32.8
72.5°	21.9	21.9	21.9	21.9	21.9	20.9	21.9	20.9
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	8.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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



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













(END OF REPORT)