

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: P252338

Luminaire Tested: **LE_6B10D010 EC6B10208035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252338
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_6B10D010 EC6B10208035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.2 lumens
Efficiency: N/A
Efficacy: 123.1 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

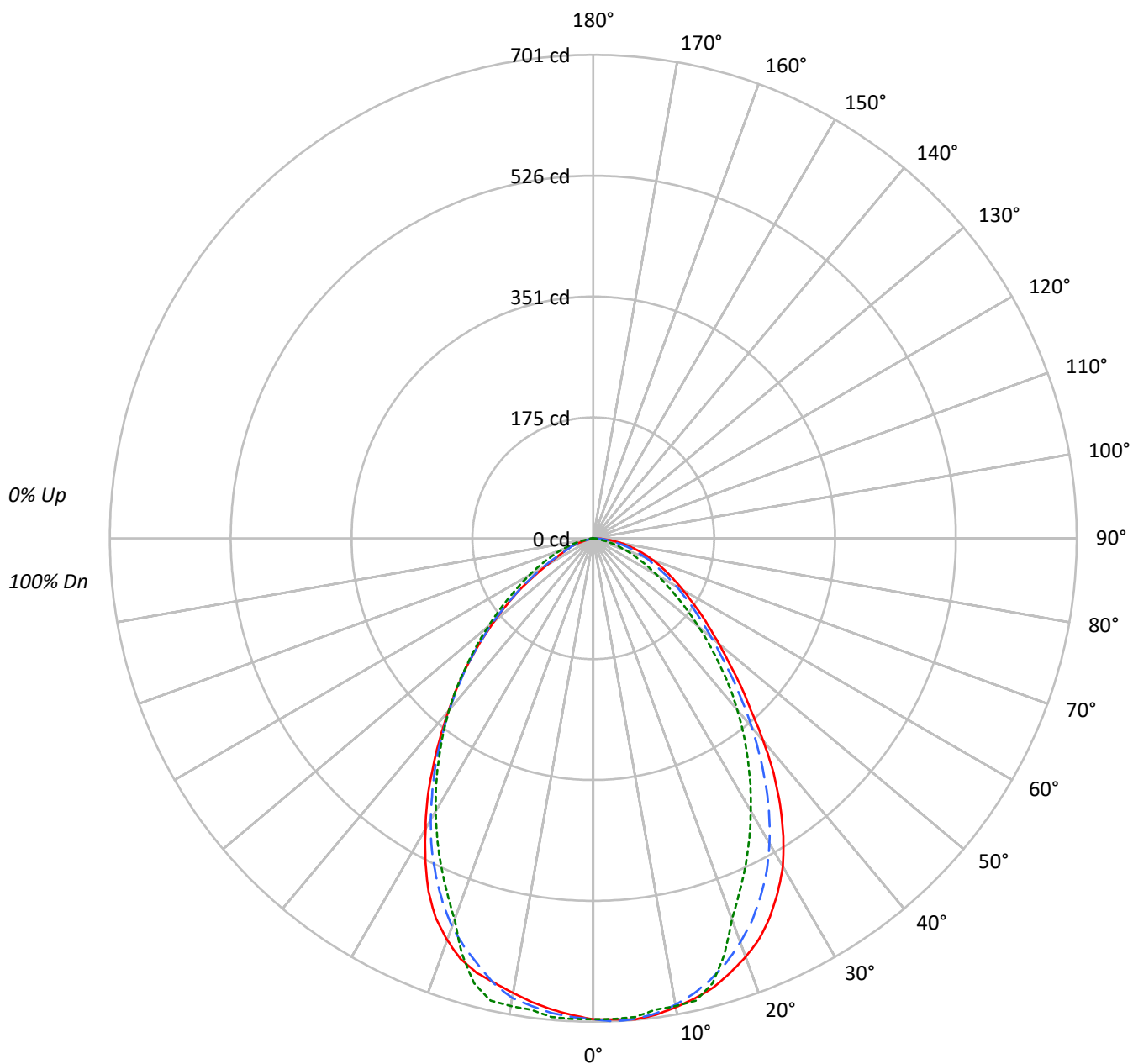
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	62	57		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45512	45512	45512
5°	45869	45633	44919
10°	45737	45618	44352
15°	45530	45105	44064
20°	44850	40823	43031
25°	43630	37634	40700
30°	41433	34397	36650
35°	37592	31101	32256
40°	32635	27696	27772
45°	27845	23823	23573
50°	24095	20137	19031
55°	21543	16789	14730
60°	19624	13948	9930
65°	18339	11454	7410
70°	17454	9328	6218
75°	16435	6604	2042
80°	15629	3381	676
85°	12875	2096	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	5.4
10°-20°	184.3	15.0
20°-30°	254.3	20.7
30°-40°	258.8	21.0
40°-50°	208.0	16.9
50°-60°	138.3	11.2
60°-70°	78.8	6.4
70°-80°	35.4	2.9
80°-90°	7.4	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°	504.5	41.0
0°-40°	763.3	62.0
0°-60°	1109.6	90.1
0°-90°	1231.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	698	698	698	698	698	
5°	700	700	697	691	686	66
15°	674	661	668	642	652	190
25°	606	574	523	540	565	278
35°	472	436	390	398	405	293
45°	302	284	258	256	256	234
55°	189	177	148	131	130	170
65°	119	106	74	48	48	118
75°	65	54	26	11	8	70
85°	17	12	3	1	0	20
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°	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6
2.5°	698.5	702.1	701.2	700.4	701.2	700.4	698.5	698.5	696.8	696.8	701.2
5°	700.4	702.1	701.2	700.4	700.4	701.2	697.6	697.6	695.9	694.9	699.5
7.5°	696.8	699.5	697.6	697.6	696.8	697.6	694.0	694.0	691.2	690.4	694.9
10°	690.4	694.0	692.2	692.2	692.2	690.4	688.6	687.6	685.0	684.0	686.8
12.5°	683.1	685.9	685.0	683.1	683.1	683.1	679.5	678.6	675.0	673.1	675.9
15°	674.1	675.9	675.0	674.1	672.2	672.2	668.6	666.9	663.2	659.6	661.4
17.5°	660.5	663.2	661.4	660.5	657.8	657.8	654.1	652.4	646.9	643.2	644.1
20°	646.0	646.9	646.0	644.1	641.5	640.5	636.9	633.2	628.8	624.2	623.4
22.5°	628.8	629.6	627.0	625.1	622.4	621.5	617.0	614.2	607.0	601.6	600.8
25°	606.1	607.0	607.0	602.5	600.8	598.9	594.4	589.9	583.5	576.2	573.5
27.5°	579.0	581.6	579.9	575.4	571.8	570.8	566.2	562.6	554.5	548.1	544.5
30°	550.0	549.0	548.1	545.4	540.0	539.1	534.5	530.0	523.6	515.5	511.0
32.5°	512.8	512.8	511.9	509.1	503.8	501.9	498.2	492.9	485.6	479.2	474.8
35°	472.0	473.0	472.0	466.6	463.0	461.1	459.4	453.0	446.6	439.4	435.8
37.5°	429.5	426.8	427.6	423.1	418.6	420.4	415.0	412.2	405.0	399.5	395.9
40°	383.2	385.0	381.4	379.6	376.9	374.1	374.1	369.6	366.0	359.8	357.9
42.5°	338.0	340.6	339.8	338.0	334.4	335.2	330.8	328.9	324.4	321.6	318.9
45°	301.8	301.8	301.8	299.9	299.0	297.1	294.5	291.8	289.0	285.4	283.6
47.5°	266.4	266.4	267.2	265.5	263.6	262.8	260.9	260.9	256.4	252.8	251.0
50°	237.4	237.4	237.4	235.6	233.8	233.8	232.0	230.1	227.4	224.8	222.9
52.5°	211.1	211.1	211.1	209.2	208.4	207.5	206.6	205.6	202.0	200.2	198.4
55°	189.4	188.5	188.5	187.5	185.8	185.8	184.9	183.0	180.2	177.6	176.6
57.5°	167.6	168.5	167.6	167.6	165.8	165.8	164.0	163.1	160.4	158.5	156.8
60°	150.4	150.4	150.4	149.5	147.6	148.6	146.8	145.9	143.1	140.4	138.6
62.5°	133.1	134.1	134.1	133.1	131.4	131.4	130.5	129.5	126.9	124.1	121.4
65°	118.8	118.8	118.8	117.8	116.9	116.9	116.0	115.1	112.4	108.8	106.0
67.5°	105.1	104.2	104.2	104.2	103.2	102.4	101.5	100.6	97.9	95.1	91.5
70°	91.5	91.5	91.5	90.6	88.8	89.8	88.8	87.9	85.1	82.5	79.8
72.5°	78.9	78.9	77.9	77.0	77.0	76.1	76.1	75.2	72.5	68.9	66.1
75°	65.2	65.2	65.2	65.2	63.4	64.4	62.5	61.6	59.8	57.1	54.4
77.5°	53.5	53.5	53.5	52.5	51.6	51.6	50.8	49.9	47.1	45.2	41.6
80°	41.6	41.6	41.6	41.6	40.8	39.9	39.0	38.0	36.2	33.5	30.8
82.5°	30.8	30.8	29.9	29.9	29.9	29.0	28.1	27.1	25.4	23.5	21.8
85°	17.2	18.1	18.1	16.2	17.2	16.2	16.2	14.5	14.5	12.6	11.8
87.5°	6.4	5.4	5.4	5.4	5.4	5.4	5.4	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°	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6
2.5°	697.6	696.8	700.4	700.4	694.9	697.6	698.5	696.8	696.8	697.6	694.9
5°	695.9	694.0	697.6	698.5	693.1	695.9	696.8	694.9	695.9	696.8	693.1
7.5°	689.5	689.5	692.2	693.1	687.6	690.4	690.4	688.6	689.5	689.5	686.8
10°	683.1	680.4	683.1	683.1	678.6	679.5	681.4	680.4	684.0	688.6	688.6
12.5°	671.4	668.6	673.1	673.1	670.5	674.1	678.6	681.4	685.0	686.8	681.4
15°	656.9	657.8	665.9	672.2	669.5	675.0	679.5	677.8	673.1	667.8	659.6
17.5°	637.9	635.1	642.4	646.0	642.4	644.1	647.8	644.1	636.9	632.4	621.5
20°	616.1	608.9	608.9	607.0	600.8	600.8	599.8	593.5	590.8	588.0	583.5
22.5°	591.6	583.5	580.8	575.4	569.9	569.0	566.2	559.9	556.2	554.5	549.0
25°	563.5	556.2	551.8	546.4	538.1	536.4	533.6	527.2	525.5	522.8	518.2
27.5°	534.5	525.5	519.1	513.8	506.5	505.5	500.1	495.6	492.0	490.1	486.5
30°	501.0	491.1	486.5	479.2	473.9	472.0	467.5	461.1	458.5	456.6	453.9
32.5°	463.9	455.8	451.2	444.9	437.6	438.5	433.1	427.6	425.9	424.0	421.2
35°	427.6	419.5	414.0	408.6	404.1	402.2	398.6	394.1	391.4	390.5	388.6
37.5°	387.8	381.4	376.9	371.5	367.9	366.0	364.2	359.8	357.9	357.9	354.2
40°	348.9	343.4	339.8	337.0	332.5	331.6	329.8	327.1	326.1	325.2	322.5
42.5°	313.5	306.2	303.5	301.8	299.0	297.1	296.2	294.5	293.5	292.6	289.9
45°	280.0	273.6	270.9	269.1	266.4	265.5	264.5	261.9	260.0	258.2	257.2
47.5°	247.4	242.9	241.9	237.4	235.6	233.8	232.0	230.1	229.2	228.4	224.8
50°	219.2	216.5	212.0	209.2	207.5	206.6	203.0	200.2	199.4	198.4	195.8
52.5°	193.9	190.2	187.5	183.0	182.1	180.2	178.5	174.9	173.0	172.1	169.4
55°	171.2	168.5	164.9	161.2	158.5	157.6	154.9	151.2	149.5	147.6	145.9
57.5°	152.2	147.6	144.0	140.4	138.6	135.9	133.1	131.4	128.6	125.9	123.2
60°	134.1	130.5	125.9	122.4	120.5	118.8	115.1	112.4	109.6	106.9	104.2
62.5°	116.9	113.2	108.8	105.1	103.2	101.5	97.9	95.1	92.4	89.8	86.1
65°	101.5	97.9	94.2	90.6	88.8	87.0	83.4	79.8	77.0	74.2	70.6
67.5°	88.8	84.2	80.6	77.0	75.2	73.4	69.8	67.0	63.4	60.8	57.1
70°	75.2	71.6	68.9	65.2	63.4	61.6	58.0	54.4	51.6	48.9	45.2
72.5°	63.4	58.9	56.1	52.5	50.8	49.9	46.2	43.5	40.8	37.1	34.4
75°	50.8	47.1	43.5	40.8	39.0	38.0	34.4	31.8	29.0	26.2	23.5
77.5°	39.0	36.2	32.6	29.9	28.1	27.1	23.5	20.9	18.1	16.2	13.6
80°	29.0	25.4	23.5	20.9	19.9	18.1	16.2	13.6	11.8	9.0	7.2
82.5°	19.9	17.2	15.4	13.6	12.6	11.8	10.0	8.1	6.4	5.4	4.5
85°	10.9	9.0	8.1	7.2	6.4	6.4	5.4	4.5	3.6	2.8	1.8
87.5°	3.6	2.8	2.8	2.8	2.8	1.8	1.8	1.8	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°	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6
2.5°	696.8	696.8	696.8	695.9	695.9	695.9	694.9	698.5	694.9	694.0	696.8
5°	695.9	694.0	694.0	694.0	694.0	693.1	692.2	694.0	691.2	690.4	690.4
7.5°	690.4	689.5	689.5	688.6	687.6	686.8	685.9	686.8	684.0	683.1	683.1
10°	691.2	689.5	689.5	686.8	685.0	682.2	679.5	680.4	676.8	674.1	674.1
12.5°	680.4	675.9	673.1	670.5	668.6	667.8	664.1	665.9	662.2	661.4	661.4
15°	656.0	650.5	646.0	644.1	644.1	642.4	639.6	643.2	641.5	642.4	646.9
17.5°	617.9	615.2	612.5	611.6	612.5	614.2	616.1	621.5	621.5	624.2	628.8
20°	584.4	582.6	584.4	584.4	585.2	588.9	592.5	597.1	598.9	601.6	608.0
22.5°	551.8	551.8	553.6	556.2	555.4	561.8	562.6	570.8	570.8	576.2	581.6
25°	520.0	520.0	521.9	522.8	524.6	528.2	531.9	538.1	540.0	545.4	550.0
27.5°	489.2	488.4	488.4	489.2	491.1	495.6	497.4	504.6	507.4	511.0	515.5
30°	454.9	453.9	455.8	457.5	456.6	461.1	463.9	469.4	471.1	474.8	478.4
32.5°	422.2	422.2	422.2	424.0	424.0	427.6	427.6	434.0	434.0	436.8	440.4
35°	388.6	388.6	389.6	390.5	391.4	392.2	393.2	396.9	397.8	398.6	400.5
37.5°	357.0	356.1	357.0	357.0	355.1	358.8	358.8	362.4	359.8	362.4	363.4
40°	324.4	324.4	323.5	323.5	323.5	325.2	323.5	326.1	324.4	326.1	325.2
42.5°	290.9	290.9	289.0	290.9	289.9	289.9	289.9	291.8	289.0	290.9	291.8
45°	257.2	256.4	256.4	255.5	255.5	255.5	256.4	256.4	255.5	257.2	257.2
47.5°	224.8	223.8	223.8	223.8	223.8	224.8	222.0	223.8	222.0	222.0	222.0
50°	196.6	195.8	194.8	193.9	193.0	193.0	192.1	192.1	190.2	189.4	188.5
52.5°	169.4	168.5	166.8	166.8	165.8	164.9	162.1	162.1	159.5	158.5	158.5
55°	145.0	142.2	141.4	139.5	139.5	137.8	135.9	134.1	131.4	129.5	129.5
57.5°	122.4	119.6	117.8	116.9	116.0	114.1	110.5	109.6	106.0	105.1	104.2
60°	102.4	99.6	97.0	95.1	94.2	91.5	87.9	86.1	84.2	81.5	78.9
62.5°	83.4	80.6	77.0	76.1	74.2	71.6	68.9	66.1	64.4	61.6	59.8
65°	67.0	64.4	61.6	59.8	58.0	55.2	52.5	49.9	48.0	47.1	46.2
67.5°	54.4	50.8	48.0	47.1	45.2	43.5	40.8	39.9	38.0	38.0	38.0
70°	42.6	39.9	37.1	36.2	35.4	33.5	31.8	31.8	31.8	31.8	31.8
72.5°	31.8	29.9	27.1	26.2	25.4	24.5	22.6	23.5	22.6	22.6	22.6
75°	19.9	18.1	16.2	15.4	14.5	13.6	12.6	11.8	10.9	10.0	10.0
77.5°	10.9	9.0	8.1	7.2	7.2	6.4	5.4	5.4	4.5	4.5	4.5
80°	6.4	5.4	4.5	3.6	3.6	2.8	2.8	2.8	2.8	1.8	1.8
82.5°	3.6	2.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
85°	1.8	1.8	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°	697.6	697.6	697.6	697.6	697.6	697.6	697.6	697.6
2.5°	692.2	694.9	692.2	694.9	694.9	694.9	694.9	692.2
5°	687.6	689.5	686.8	688.6	689.5	688.6	688.6	685.9
7.5°	679.5	681.4	678.6	681.4	682.2	681.4	680.4	678.6
10°	671.4	672.2	669.5	671.4	673.1	673.1	672.2	669.5
12.5°	658.6	661.4	658.6	660.5	662.2	663.2	663.2	660.5
15°	644.1	648.8	646.9	649.6	652.4	653.2	653.2	652.4
17.5°	629.6	634.2	631.5	636.0	638.8	640.5	641.5	639.6
20°	608.9	614.2	612.5	616.1	619.8	622.4	622.4	619.8
22.5°	581.6	588.9	588.0	590.8	595.2	596.1	598.0	596.1
25°	551.8	557.2	556.2	559.0	564.5	564.5	565.4	565.4
27.5°	517.4	522.8	521.9	523.6	527.2	528.2	529.1	527.2
30°	480.2	482.9	482.9	485.6	488.4	489.2	489.2	486.5
32.5°	439.4	443.0	444.9	444.0	446.6	448.5	447.6	447.6
35°	402.2	403.1	404.1	405.0	405.9	407.8	405.9	405.0
37.5°	362.4	365.1	363.4	365.1	367.0	366.0	365.1	365.1
40°	326.1	327.1	325.2	327.1	328.0	328.0	328.0	326.1
42.5°	289.9	291.8	289.9	291.8	291.8	291.8	291.8	290.9
45°	253.6	255.5	255.5	256.4	256.4	255.5	255.5	255.5
47.5°	220.1	222.0	220.1	222.0	222.9	221.1	221.1	221.1
50°	188.5	187.5	187.5	188.5	188.5	188.5	188.5	187.5
52.5°	155.9	156.8	156.8	156.8	157.6	156.8	157.6	157.6
55°	127.8	127.8	127.8	128.6	127.8	127.8	128.6	129.5
57.5°	102.4	101.5	100.6	100.6	101.5	100.6	100.6	100.6
60°	78.9	77.9	77.0	77.0	77.0	77.0	77.0	76.1
62.5°	58.9	58.9	58.9	59.8	59.8	59.8	59.8	60.8
65°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	48.0
67.5°	38.0	38.0	38.0	39.0	39.0	39.0	39.0	39.0
70°	31.8	31.8	32.6	31.8	32.6	32.6	32.6	32.6
72.5°	21.8	21.8	21.8	21.8	21.8	20.9	21.8	20.9
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)