

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: P252344

Luminaire Tested: **LE_6B10D010 EC6B10209035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252344
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 EC6B10209035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1041.3 lumens
Efficiency: N/A
Efficacy: 104.1 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

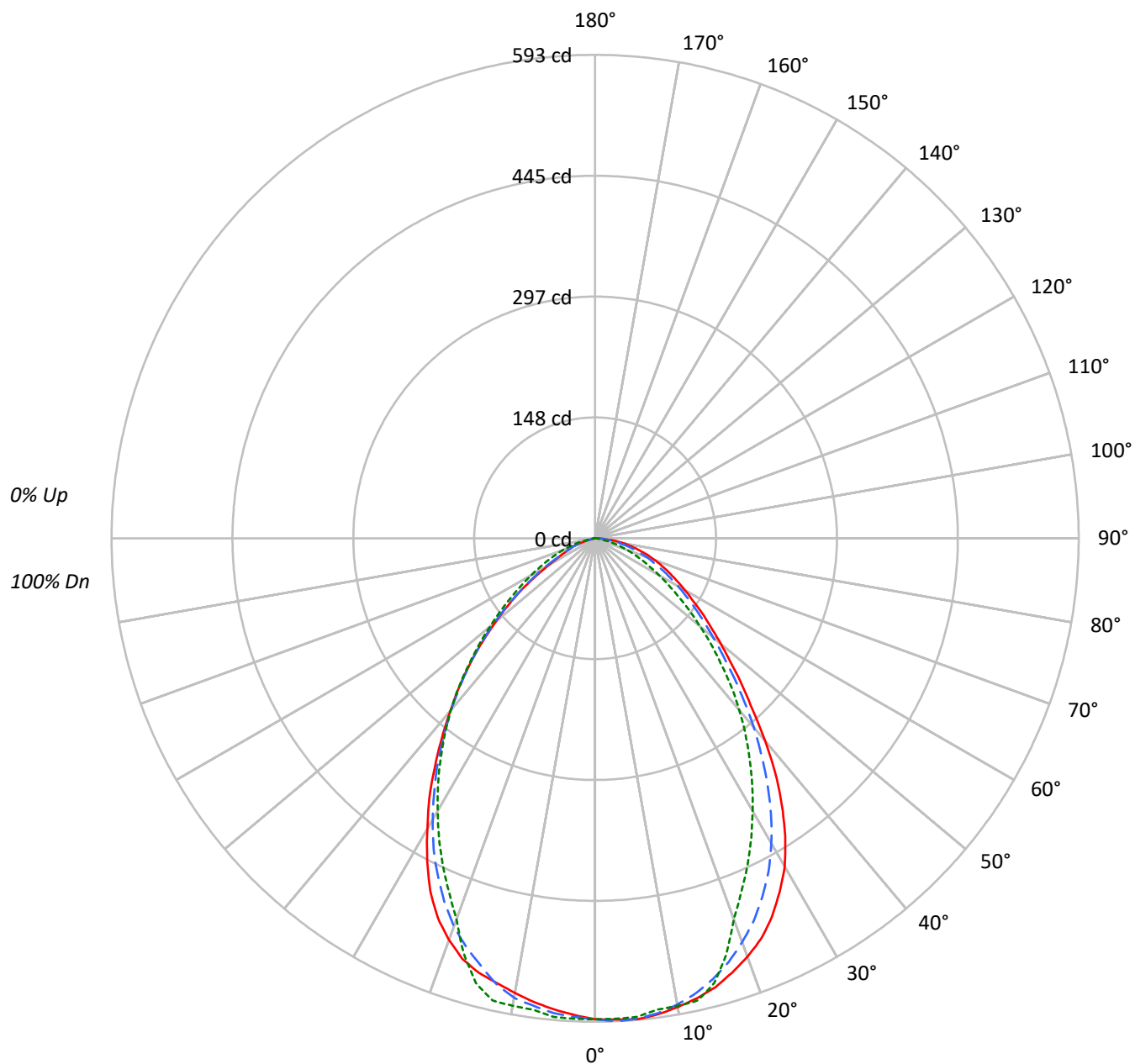
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			88
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			77
3	95	86	80	74	93	85	79	73		82	77	72			79	75	71			68
4	88	78	71	65	86	77	70	64		74	68	64			72	67	63			60
5	82	71	63	57	80	70	63	57		68	62	57			66	60	56			54
6	77	65	57	51	75	64	57	51		62	56	51			61	55	50			48
7	72	60	52	46	70	59	51	46		57	51	46			56	50	46			44
8	67	55	47	42	66	54	47	42		53	46	42			52	46	42			40
9	63	51	43	38	62	50	43	38		49	43	38			48	42	38			36
10	59	47	40	35	58	47	40	35		46	40	35			45	39	35			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38492	38492	38492
5°	38783	38587	37984
10°	38682	38582	37509
15°	38499	38148	37256
20°	37921	34519	36387
25°	36900	31825	34416
30°	35038	29086	31000
35°	31794	26298	27278
40°	27602	23429	23497
45°	23537	20150	19938
50°	20380	17031	16097
55°	18210	14207	12466
60°	16597	11796	8403
65°	15499	9710	6268
70°	14764	7897	5265
75°	13889	5596	1739
80°	13225	2855	564
85°	10854	1647	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	5.4
10°-20°	155.8	15.0
20°-30°	215.1	20.7
30°-40°	218.9	21.0
40°-50°	175.9	16.9
50°-60°	117.0	11.2
60°-70°	66.7	6.4
70°-80°	29.9	2.9
80°-90°	6.3	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°	426.6	41.0
0°-40°	645.5	62.0
0°-60°	938.4	90.1
0°-90°	1041.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	590	590	590	590	590	
5°	592	592	589	585	580	56
15°	570	559	565	542	552	160
25°	513	485	442	457	478	235
35°	399	368	330	336	342	248
45°	255	240	218	216	216	198
55°	160	149	125	111	110	144
65°	100	90	63	41	41	100
75°	55	46	22	9	7	59
85°	14	10	2	1	0	17
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°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	590.8	593.8	593.0	592.2	593.0	592.2	590.8	590.8	589.2	589.2	593.0
5°	592.2	593.8	593.0	592.2	592.2	593.0	590.0	590.0	588.5	587.6	591.5
7.5°	589.2	591.5	590.0	590.0	589.2	590.0	586.9	586.9	584.6	583.9	587.6
10°	583.9	586.9	585.4	585.4	585.4	583.9	582.4	581.5	579.2	578.5	580.8
12.5°	577.8	580.0	579.2	577.8	577.8	577.8	574.6	573.9	570.9	569.2	571.6
15°	570.0	571.6	570.9	570.0	568.5	568.5	565.5	563.9	560.9	557.8	559.4
17.5°	558.6	560.9	559.4	558.6	556.2	556.2	553.2	551.6	547.1	544.0	544.8
20°	546.2	547.1	546.2	544.8	542.5	541.8	538.6	535.6	531.8	527.9	527.1
22.5°	531.8	532.5	530.2	528.6	526.4	525.6	521.8	519.5	513.4	508.8	508.0
25°	512.6	513.4	513.4	509.5	508.0	506.5	502.6	498.8	493.5	487.2	485.0
27.5°	489.6	491.9	490.4	486.5	483.5	482.8	478.9	475.9	468.9	463.5	460.5
30°	465.1	464.4	463.5	461.2	456.6	455.9	452.1	448.2	442.9	436.0	432.1
32.5°	433.6	433.6	432.9	430.6	426.0	424.5	421.4	416.9	410.8	405.4	401.5
35°	399.2	400.0	399.2	394.6	391.5	390.0	388.5	383.1	377.8	371.6	368.5
37.5°	363.1	360.9	361.6	357.9	354.0	355.5	350.9	348.6	342.5	337.9	334.9
40°	324.1	325.6	322.6	321.0	318.8	316.5	316.5	312.6	309.5	304.1	302.6
42.5°	285.8	288.1	287.4	285.8	282.8	283.5	279.6	278.1	274.2	272.0	269.8
45°	255.1	255.1	255.1	253.6	252.9	251.4	249.0	246.8	244.4	241.4	239.9
47.5°	225.2	225.2	226.0	224.5	223.0	222.2	220.6	220.6	216.9	213.8	212.2
50°	200.8	200.8	200.8	199.2	197.6	197.6	196.1	194.6	192.4	190.0	188.5
52.5°	178.5	178.5	178.5	177.0	176.2	175.5	174.8	173.9	170.9	169.4	167.8
55°	160.1	159.4	159.4	158.6	157.1	157.1	156.2	154.8	152.5	150.1	149.4
57.5°	141.8	142.5	141.8	141.8	140.2	140.2	138.6	137.9	135.6	134.1	132.5
60°	127.2	127.2	127.2	126.4	124.9	125.6	124.1	123.4	121.0	118.8	117.2
62.5°	112.6	113.4	113.4	112.6	111.1	111.1	110.4	109.6	107.2	105.0	102.6
65°	100.4	100.4	100.4	99.6	98.9	98.9	98.1	97.2	95.0	92.0	89.6
67.5°	88.9	88.1	88.1	88.1	87.4	86.6	85.9	85.0	82.8	80.5	77.4
70°	77.4	77.4	77.4	76.6	75.1	75.9	75.1	74.4	72.0	69.8	67.4
72.5°	66.6	66.6	65.9	65.1	65.1	64.4	64.4	63.6	61.2	58.2	55.9
75°	55.1	55.1	55.1	55.1	53.6	54.4	52.9	52.1	50.6	48.2	46.0
77.5°	45.2	45.2	45.2	44.5	43.6	43.6	42.9	42.1	39.9	38.2	35.2
80°	35.2	35.2	35.2	35.2	34.5	33.8	33.0	32.1	30.6	28.4	26.0
82.5°	26.0	26.0	25.2	25.2	25.2	24.5	23.8	23.0	21.5	19.9	18.4
85°	14.5	15.4	15.4	13.8	14.5	13.8	13.8	12.2	12.2	10.8	10.0
87.5°	5.4	4.6	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	590.0	589.2	592.2	592.2	587.6	590.0	590.8	589.2	589.2	590.0	587.6
5°	588.5	586.9	590.0	590.8	586.1	588.5	589.2	587.6	588.5	589.2	586.1
7.5°	583.1	583.1	585.4	586.1	581.5	583.9	583.9	582.4	583.1	583.1	580.8
10°	577.8	575.4	577.8	577.8	573.9	574.6	576.2	575.4	578.5	582.4	582.4
12.5°	567.8	565.5	569.2	569.2	567.0	570.0	573.9	576.2	579.2	580.8	576.2
15°	555.5	556.2	563.1	568.5	566.2	570.9	574.6	573.1	569.2	564.8	557.8
17.5°	539.4	537.1	543.2	546.2	543.2	544.8	547.9	544.8	538.6	534.9	525.6
20°	521.0	514.9	514.9	513.4	508.0	508.0	507.2	501.9	499.6	497.2	493.5
22.5°	500.4	493.5	491.1	486.5	482.0	481.1	478.9	473.5	470.5	468.9	464.4
25°	476.6	470.5	466.6	462.0	455.1	453.6	451.2	445.9	444.4	442.1	438.2
27.5°	452.1	444.4	439.0	434.5	428.2	427.5	423.0	419.1	416.0	414.5	411.5
30°	423.8	415.2	411.5	405.4	400.8	399.2	395.4	390.0	387.8	386.1	383.9
32.5°	392.2	385.4	381.6	376.2	370.1	370.9	366.2	361.6	360.1	358.6	356.2
35°	361.6	354.8	350.1	345.5	341.8	340.2	337.1	333.2	331.0	330.2	328.8
37.5°	327.9	322.6	318.8	314.1	311.1	309.5	308.0	304.1	302.6	302.6	299.6
40°	295.0	290.4	287.4	285.0	281.2	280.4	278.9	276.6	275.9	275.1	272.8
42.5°	265.1	259.0	256.6	255.1	252.9	251.4	250.5	249.0	248.2	247.5	245.1
45°	236.8	231.4	229.1	227.6	225.2	224.5	223.8	221.4	219.9	218.4	217.6
47.5°	209.1	205.4	204.6	200.8	199.2	197.6	196.1	194.6	193.9	193.1	190.0
50°	185.4	183.1	179.2	177.0	175.5	174.8	171.6	169.4	168.6	167.8	165.5
52.5°	164.0	160.9	158.6	154.8	154.0	152.5	151.0	147.9	146.4	145.6	143.2
55°	144.9	142.5	139.5	136.4	134.1	133.4	131.0	128.0	126.4	124.9	123.4
57.5°	128.8	124.9	121.9	118.8	117.2	114.9	112.6	111.1	108.8	106.5	104.2
60°	113.4	110.4	106.5	103.5	101.9	100.4	97.2	95.0	92.8	90.4	88.1
62.5°	98.9	95.8	92.0	88.9	87.4	85.9	82.8	80.5	78.1	75.9	72.8
65°	85.9	82.8	79.6	76.6	75.1	73.5	70.5	67.4	65.1	62.9	59.8
67.5°	75.1	71.2	68.2	65.1	63.6	62.1	59.0	56.8	53.6	51.4	48.2
70°	63.6	60.5	58.2	55.1	53.6	52.1	49.0	46.0	43.6	41.4	38.2
72.5°	53.6	49.8	47.5	44.5	42.9	42.1	39.1	36.8	34.5	31.4	29.1
75°	42.9	39.9	36.8	34.5	33.0	32.1	29.1	26.9	24.5	22.2	19.9
77.5°	33.0	30.6	27.6	25.2	23.8	23.0	19.9	17.6	15.4	13.8	11.5
80°	24.5	21.5	19.9	17.6	16.9	15.4	13.8	11.5	10.0	7.6	6.1
82.5°	16.9	14.5	13.0	11.5	10.8	10.0	8.4	6.9	5.4	4.6	3.9
85°	9.2	7.6	6.9	6.1	5.4	5.4	4.6	3.9	3.1	2.2	1.5
87.5°	3.1	2.2	2.2	2.2	2.2	1.5	1.5	1.5	0.8	0.8	0.8
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°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	589.2	589.2	589.2	588.5	588.5	588.5	587.6	590.8	587.6	586.9	589.2
5°	588.5	586.9	586.9	586.9	586.9	586.1	585.4	586.9	584.6	583.9	583.9
7.5°	583.9	583.1	583.1	582.4	581.5	580.8	580.0	580.8	578.5	577.8	577.8
10°	584.6	583.1	583.1	580.8	579.2	577.0	574.6	575.4	572.4	570.0	570.0
12.5°	575.4	571.6	569.2	567.0	565.5	564.8	561.6	563.1	560.1	559.4	559.4
15°	554.8	550.1	546.2	544.8	544.8	543.2	541.0	544.0	542.5	543.2	547.1
17.5°	522.5	520.2	518.0	517.2	518.0	519.5	521.0	525.6	525.6	527.9	531.8
20°	494.2	492.6	494.2	494.2	495.0	498.0	501.1	504.9	506.5	508.8	514.1
22.5°	466.6	466.6	468.1	470.5	469.6	475.0	475.9	482.8	482.8	487.2	491.9
25°	439.8	439.8	441.4	442.1	443.6	446.8	449.8	455.1	456.6	461.2	465.1
27.5°	413.8	413.0	413.0	413.8	415.2	419.1	420.6	426.8	429.1	432.1	436.0
30°	384.6	383.9	385.4	386.9	386.1	390.0	392.2	396.9	398.4	401.5	404.5
32.5°	357.0	357.0	357.0	358.6	358.6	361.6	361.6	367.0	367.0	369.4	372.4
35°	328.8	328.8	329.5	330.2	331.0	331.8	332.5	335.6	336.4	337.1	338.6
37.5°	301.9	301.1	301.9	301.9	300.4	303.4	303.4	306.5	304.1	306.5	307.2
40°	274.2	274.2	273.5	273.5	273.5	275.1	273.5	275.9	274.2	275.9	275.1
42.5°	246.0	246.0	244.4	246.0	245.1	245.1	245.1	246.8	244.4	246.0	246.8
45°	217.6	216.9	216.9	216.1	216.1	216.1	216.9	216.9	216.1	217.6	217.6
47.5°	190.0	189.2	189.2	189.2	189.2	190.0	187.8	189.2	187.8	187.8	187.8
50°	166.2	165.5	164.8	164.0	163.2	163.2	162.4	162.4	160.9	160.1	159.4
52.5°	143.2	142.5	141.0	141.0	140.2	139.5	137.1	137.1	134.9	134.1	134.1
55°	122.6	120.2	119.5	118.0	118.0	116.5	114.9	113.4	111.1	109.6	109.6
57.5°	103.5	101.1	99.6	98.9	98.1	96.5	93.5	92.8	89.6	88.9	88.1
60°	86.6	84.2	82.0	80.5	79.6	77.4	74.4	72.8	71.2	69.0	66.6
62.5°	70.5	68.2	65.1	64.4	62.9	60.5	58.2	55.9	54.4	52.1	50.6
65°	56.8	54.4	52.1	50.6	49.0	46.8	44.5	42.1	40.6	39.9	39.1
67.5°	46.0	42.9	40.6	39.9	38.2	36.8	34.5	33.8	32.1	32.1	32.1
70°	36.0	33.8	31.4	30.6	29.9	28.4	26.9	26.9	26.9	26.9	26.9
72.5°	26.9	25.2	23.0	22.2	21.5	20.8	19.1	19.9	19.1	19.1	19.1
75°	16.9	15.4	13.8	13.0	12.2	11.5	10.8	10.0	9.2	8.4	8.4
77.5°	9.2	7.6	6.9	6.1	6.1	5.4	4.6	4.6	3.9	3.9	3.9
80°	5.4	4.6	3.9	3.1	3.1	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	3.1	2.2	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
85°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
2.5°	585.4	587.6	585.4	587.6	587.6	587.6	587.6	585.4
5°	581.5	583.1	580.8	582.4	583.1	582.4	582.4	580.0
7.5°	574.6	576.2	573.9	576.2	577.0	576.2	575.4	573.9
10°	567.8	568.5	566.2	567.8	569.2	569.2	568.5	566.2
12.5°	557.0	559.4	557.0	558.6	560.1	560.9	560.9	558.6
15°	544.8	548.6	547.1	549.4	551.6	552.4	552.4	551.6
17.5°	532.5	536.4	534.0	537.9	540.1	541.8	542.5	541.0
20°	514.9	519.5	518.0	521.0	524.1	526.4	526.4	524.1
22.5°	491.9	498.0	497.2	499.6	503.4	504.1	505.8	504.1
25°	466.6	471.2	470.5	472.8	477.4	477.4	478.1	478.1
27.5°	437.5	442.1	441.4	442.9	445.9	446.8	447.5	445.9
30°	406.1	408.4	408.4	410.8	413.0	413.8	413.8	411.5
32.5°	371.6	374.6	376.2	375.5	377.8	379.2	378.5	378.5
35°	340.2	341.0	341.8	342.5	343.2	344.8	343.2	342.5
37.5°	306.5	308.8	307.2	308.8	310.4	309.5	308.8	308.8
40°	275.9	276.6	275.1	276.6	277.4	277.4	277.4	275.9
42.5°	245.1	246.8	245.1	246.8	246.8	246.8	246.8	246.0
45°	214.5	216.1	216.1	216.9	216.9	216.1	216.1	216.1
47.5°	186.2	187.8	186.2	187.8	188.5	187.0	187.0	187.0
50°	159.4	158.6	158.6	159.4	159.4	159.4	159.4	158.6
52.5°	131.8	132.5	132.5	132.5	133.4	132.5	133.4	133.4
55°	108.0	108.0	108.0	108.8	108.0	108.0	108.8	109.6
57.5°	86.6	85.9	85.0	85.0	85.9	85.0	85.0	85.0
60°	66.6	65.9	65.1	65.1	65.1	65.1	65.1	64.4
62.5°	49.8	49.8	49.8	50.6	50.6	50.6	50.6	51.4
65°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.6
67.5°	32.1	32.1	32.1	33.0	33.0	33.0	33.0	33.0
70°	26.9	26.9	27.6	26.9	27.6	27.6	27.6	27.6
72.5°	18.4	18.4	18.4	18.4	18.4	17.6	18.4	17.6
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.9
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)