

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: P252357

Luminaire Tested: **LE_6B15D010 EC6B10209035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252357
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 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: 1436.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

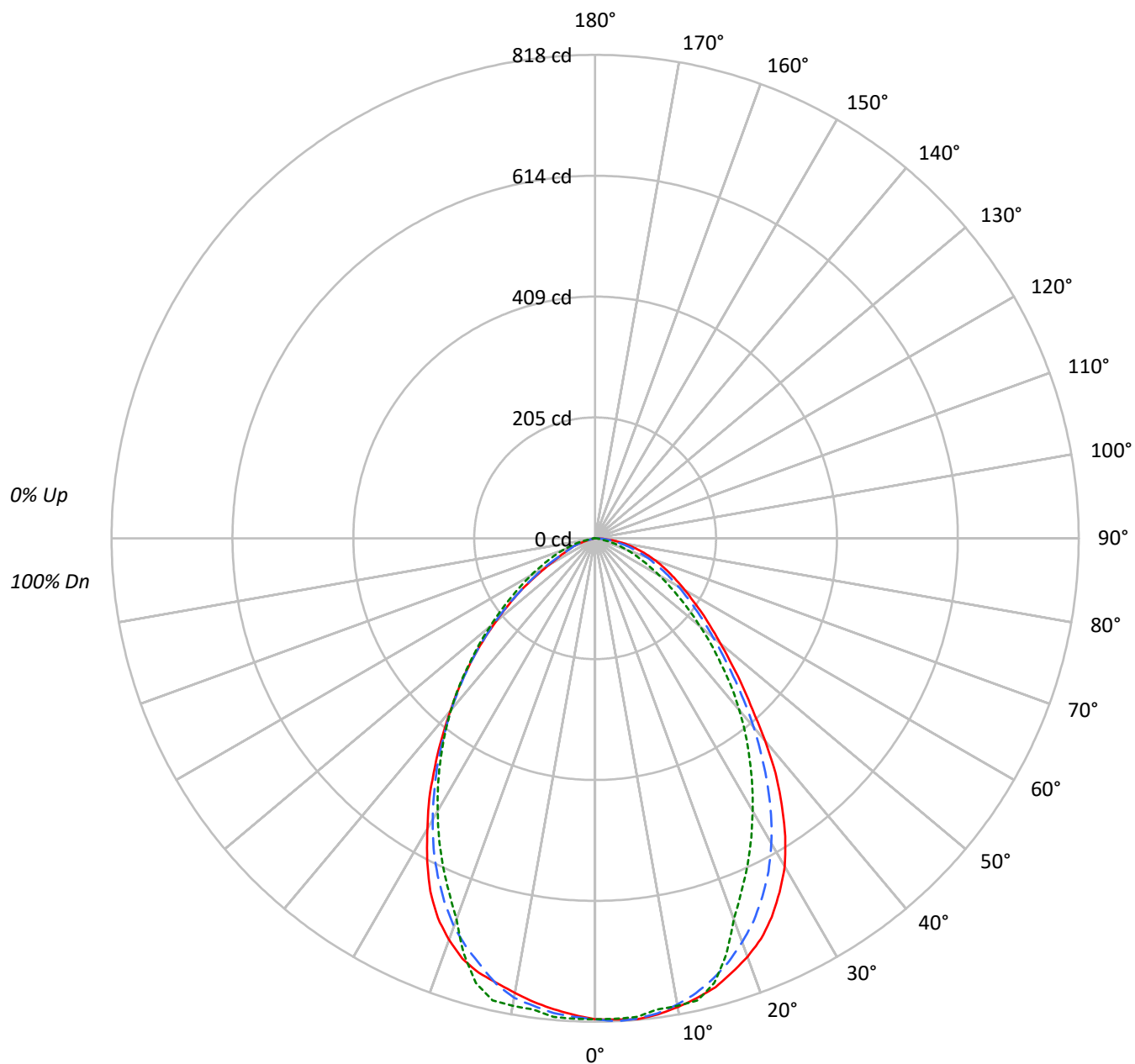
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
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°	53093	53093	53093
5°	53505	53230	52392
10°	53355	53210	51739
15°	53115	52609	51400
20°	52314	47620	50189
25°	50893	43904	47474
30°	48326	40123	42752
35°	43852	36278	37624
40°	38069	32312	32406
45°	32477	27790	27495
50°	28104	23496	22207
55°	25126	19587	17187
60°	22899	16284	11587
65°	21381	13369	8645
70°	20372	10892	7249
75°	19183	7713	2395
80°	18259	3982	789
85°	15046	2321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	5.4
10°-20°	214.9	15.0
20°-30°	296.7	20.7
30°-40°	301.9	21.0
40°-50°	242.6	16.9
50°-60°	161.3	11.2
60°-70°	91.9	6.4
70°-80°	41.3	2.9
80°-90°	8.7	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°	588.5	41.0
0°-40°	890.4	62.0
0°-60°	1294.3	90.1
0°-90°	1436.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	814	814	814	814	814	
5°	817	816	813	806	800	78
15°	786	772	779	748	761	221
25°	707	669	610	630	660	324
35°	551	508	456	464	472	342
45°	352	331	301	298	298	273
55°	221	206	172	153	151	198
65°	138	124	87	56	56	138
75°	76	63	31	13	10	81
85°	20	14	3	1	0	24
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°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	814.9	819.1	818.0	817.0	818.0	817.0	814.9	814.9	812.8	812.8	818.0
5°	817.0	819.1	818.0	817.0	817.0	818.0	813.8	813.8	811.6	810.6	815.9
7.5°	812.8	815.9	813.8	813.8	812.8	813.8	809.6	809.6	806.4	805.4	810.6
10°	805.4	809.6	807.5	807.5	807.5	805.4	803.2	802.1	799.0	798.0	801.1
12.5°	796.9	800.0	799.0	796.9	796.9	796.9	792.6	791.6	787.4	785.2	788.4
15°	786.4	788.4	787.4	786.4	784.2	784.2	780.0	777.9	773.6	769.4	771.5
17.5°	770.5	773.6	771.5	770.5	767.2	767.2	763.0	761.0	754.6	750.4	751.4
20°	753.5	754.6	753.5	751.4	748.2	747.2	743.0	738.8	733.5	728.1	727.1
22.5°	733.5	734.5	731.4	729.2	726.1	725.0	719.8	716.5	708.1	701.8	700.8
25°	707.0	708.1	708.1	702.9	700.8	698.6	693.2	688.0	680.6	672.1	669.0
27.5°	675.4	678.5	676.4	671.1	666.9	665.9	660.5	656.4	646.8	639.4	635.1
30°	641.5	640.5	639.4	636.2	629.9	628.9	623.5	618.2	610.9	601.4	596.1
32.5°	598.2	598.2	597.1	594.0	587.6	585.5	581.2	575.0	566.5	559.1	553.8
35°	550.6	551.6	550.6	544.2	540.0	538.0	535.9	528.4	521.0	512.6	508.4
37.5°	501.0	497.8	498.9	493.5	488.2	490.4	484.0	480.9	472.4	466.1	461.9
40°	447.0	449.1	445.0	442.9	439.6	436.5	436.5	431.2	427.0	419.6	417.5
42.5°	394.2	397.4	396.4	394.2	390.0	391.0	385.8	383.6	378.4	375.2	372.0
45°	352.0	352.0	352.0	349.9	348.8	346.6	343.5	340.4	337.1	332.9	330.8
47.5°	310.8	310.8	311.8	309.6	307.5	306.5	304.4	304.4	299.1	294.9	292.8
50°	276.9	276.9	276.9	274.8	272.6	272.6	270.5	268.5	265.2	262.1	260.0
52.5°	246.2	246.2	246.2	244.1	243.1	242.0	241.0	239.9	235.6	233.6	231.5
55°	220.9	219.9	219.9	218.8	216.6	216.6	215.6	213.5	210.4	207.1	206.1
57.5°	195.5	196.6	195.5	195.5	193.4	193.4	191.2	190.2	187.1	185.0	182.9
60°	175.5	175.5	175.5	174.4	172.2	173.4	171.2	170.1	167.0	163.9	161.8
62.5°	155.4	156.4	156.4	155.4	153.2	153.2	152.2	151.1	148.0	144.8	141.6
65°	138.5	138.5	138.5	137.4	136.4	136.4	135.2	134.2	131.0	126.9	123.6
67.5°	122.6	121.5	121.5	121.5	120.5	119.4	118.4	117.4	114.1	111.0	106.8
70°	106.8	106.8	106.8	105.6	103.6	104.6	103.6	102.5	99.4	96.1	93.0
72.5°	92.0	92.0	90.9	89.9	89.9	88.8	88.8	87.8	84.5	80.4	77.1
75°	76.1	76.1	76.1	76.1	74.0	75.0	72.9	71.9	69.8	66.6	63.4
77.5°	62.4	62.4	62.4	61.2	60.2	60.2	59.1	58.1	55.0	52.9	48.6
80°	48.6	48.6	48.6	48.6	47.5	46.5	45.5	44.4	42.2	39.1	35.9
82.5°	35.9	35.9	34.9	34.9	34.9	33.9	32.8	31.8	29.6	27.5	25.4
85°	20.1	21.1	21.1	19.0	20.1	19.0	19.0	16.9	16.9	14.8	13.8
87.5°	7.4	6.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2	5.2	4.2
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°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	813.8	812.8	817.0	817.0	810.6	813.8	814.9	812.8	812.8	813.8	810.6
5°	811.6	809.6	813.8	814.9	808.5	811.6	812.8	810.6	811.6	812.8	808.5
7.5°	804.2	804.2	807.5	808.5	802.1	805.4	805.4	803.2	804.2	804.2	801.1
10°	796.9	793.8	796.9	796.9	791.6	792.6	794.8	793.8	798.0	803.2	803.2
12.5°	783.1	780.0	785.2	785.2	782.1	786.4	791.6	794.8	799.0	801.1	794.8
15°	766.2	767.2	776.8	784.2	781.0	787.4	792.6	790.5	785.2	778.9	769.4
17.5°	744.0	740.9	749.4	753.5	749.4	751.4	755.6	751.4	743.0	737.8	725.0
20°	718.6	710.2	710.2	708.1	700.8	700.8	699.6	692.2	689.1	685.9	680.6
22.5°	690.1	680.6	677.5	671.1	664.8	663.8	660.5	653.1	648.9	646.8	640.5
25°	657.4	648.9	643.6	637.2	627.8	625.6	622.5	615.1	613.0	609.9	604.5
27.5°	623.5	613.0	605.6	599.2	590.8	589.8	583.4	578.1	573.9	571.8	567.5
30°	584.5	572.9	567.5	559.1	552.8	550.6	545.4	538.0	534.8	532.6	529.5
32.5°	541.1	531.6	526.4	518.9	510.5	511.5	505.1	498.9	496.8	494.6	491.5
35°	498.9	489.4	483.0	476.6	471.4	469.2	465.0	459.8	456.6	455.5	453.4
37.5°	452.4	445.0	439.6	433.4	429.1	427.0	424.9	419.6	417.5	417.5	413.2
40°	406.9	400.5	396.4	393.1	387.9	386.9	384.8	381.5	380.5	379.4	376.2
42.5°	365.6	357.2	354.0	352.0	348.8	346.6	345.6	343.5	342.4	341.4	338.2
45°	326.6	319.1	316.0	313.9	310.8	309.6	308.6	305.4	303.4	301.2	300.1
47.5°	288.5	283.2	282.1	276.9	274.8	272.6	270.5	268.5	267.4	266.4	262.1
50°	255.8	252.6	247.2	244.1	242.0	241.0	236.8	233.6	232.5	231.5	228.2
52.5°	226.1	222.0	218.8	213.5	212.4	210.4	208.2	204.0	201.9	200.8	197.6
55°	199.8	196.6	192.4	188.1	185.0	183.9	180.8	176.5	174.4	172.2	170.1
57.5°	177.5	172.2	168.0	163.9	161.8	158.5	155.4	153.2	150.1	146.9	143.8
60°	156.4	152.2	146.9	142.6	140.6	138.5	134.2	131.0	127.9	124.8	121.5
62.5°	136.4	132.1	126.9	122.6	120.5	118.4	114.1	111.0	107.8	104.6	100.4
65°	118.4	114.1	109.9	105.6	103.6	101.5	97.2	93.0	89.9	86.6	82.4
67.5°	103.6	98.2	94.0	89.9	87.8	85.6	81.4	78.2	74.0	70.8	66.6
70°	87.8	83.5	80.4	76.1	74.0	71.9	67.6	63.4	60.2	57.1	52.9
72.5°	74.0	68.8	65.5	61.2	59.1	58.1	53.9	50.8	47.5	43.4	40.1
75°	59.1	55.0	50.8	47.5	45.5	44.4	40.1	37.0	33.9	30.6	27.5
77.5°	45.5	42.2	38.0	34.9	32.8	31.8	27.5	24.2	21.1	19.0	15.9
80°	33.9	29.6	27.5	24.2	23.2	21.1	19.0	15.9	13.8	10.6	8.5
82.5°	23.2	20.1	18.0	15.9	14.8	13.8	11.6	9.5	7.4	6.4	5.2
85°	12.6	10.6	9.5	8.5	7.4	7.4	6.4	5.2	4.2	3.1	2.1
87.5°	4.2	3.1	3.1	3.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0
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°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	812.8	812.8	812.8	811.6	811.6	811.6	810.6	814.9	810.6	809.6	812.8
5°	811.6	809.6	809.6	809.6	809.6	808.5	807.5	809.6	806.4	805.4	805.4
7.5°	805.4	804.2	804.2	803.2	802.1	801.1	800.0	801.1	798.0	796.9	796.9
10°	806.4	804.2	804.2	801.1	799.0	795.9	792.6	793.8	789.5	786.4	786.4
12.5°	793.8	788.4	785.2	782.1	780.0	778.9	774.6	776.8	772.6	771.5	771.5
15°	765.1	758.9	753.5	751.4	751.4	749.4	746.1	750.4	748.2	749.4	754.6
17.5°	720.8	717.6	714.5	713.4	714.5	716.5	718.6	725.0	725.0	728.1	733.5
20°	681.6	679.6	681.6	681.6	682.8	687.0	691.2	696.5	698.6	701.8	709.1
22.5°	643.6	643.6	645.8	648.9	647.9	655.2	656.4	665.9	665.9	672.1	678.5
25°	606.6	606.6	608.8	609.9	611.9	616.1	620.4	627.8	629.9	636.2	641.5
27.5°	570.8	569.6	569.6	570.8	572.9	578.1	580.2	588.6	591.9	596.1	601.4
30°	530.5	529.5	531.6	533.8	532.6	538.0	541.1	547.5	549.6	553.8	558.0
32.5°	492.5	492.5	492.5	494.6	494.6	498.9	498.9	506.2	506.2	509.4	513.6
35°	453.4	453.4	454.5	455.5	456.6	457.6	458.6	462.9	464.0	465.0	467.1
37.5°	416.4	415.4	416.4	416.4	414.2	418.5	418.5	422.8	419.6	422.8	423.8
40°	378.4	378.4	377.2	377.2	377.2	379.4	377.2	380.5	378.4	380.5	379.4
42.5°	339.2	339.2	337.1	339.2	338.2	338.2	338.2	340.4	337.1	339.2	340.4
45°	300.1	299.1	299.1	298.0	298.0	298.0	299.1	299.1	298.0	300.1	300.1
47.5°	262.1	261.0	261.0	261.0	261.0	262.1	258.9	261.0	258.9	258.9	258.9
50°	229.4	228.2	227.2	226.1	225.1	225.1	224.0	224.0	222.0	220.9	219.9
52.5°	197.6	196.6	194.5	194.5	193.4	192.4	189.1	189.1	186.0	185.0	185.0
55°	169.1	165.9	164.9	162.8	162.8	160.6	158.5	156.4	153.2	151.1	151.1
57.5°	142.6	139.5	137.4	136.4	135.2	133.1	129.0	127.9	123.6	122.6	121.5
60°	119.4	116.2	113.1	111.0	109.9	106.8	102.5	100.4	98.2	95.1	92.0
62.5°	97.2	94.0	89.9	88.8	86.6	83.5	80.4	77.1	75.0	71.9	69.8
65°	78.2	75.0	71.9	69.8	67.6	64.5	61.2	58.1	56.0	55.0	53.9
67.5°	63.4	59.1	56.0	55.0	52.9	50.8	47.5	46.5	44.4	44.4	44.4
70°	49.6	46.5	43.4	42.2	41.2	39.1	37.0	37.0	37.0	37.0	37.0
72.5°	37.0	34.9	31.8	30.6	29.6	28.5	26.4	27.5	26.4	26.4	26.4
75°	23.2	21.1	19.0	18.0	16.9	15.9	14.8	13.8	12.6	11.6	11.6
77.5°	12.6	10.6	9.5	8.5	8.5	7.4	6.4	6.4	5.2	5.2	5.2
80°	7.4	6.4	5.2	4.2	4.2	3.1	3.1	3.1	3.1	2.1	2.1
82.5°	4.2	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
85°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	807.5	810.6	807.5	810.6	810.6	810.6	810.6	807.5
5°	802.1	804.2	801.1	803.2	804.2	803.2	803.2	800.0
7.5°	792.6	794.8	791.6	794.8	795.9	794.8	793.8	791.6
10°	783.1	784.2	781.0	783.1	785.2	785.2	784.2	781.0
12.5°	768.4	771.5	768.4	770.5	772.6	773.6	773.6	770.5
15°	751.4	756.8	754.6	757.8	761.0	762.0	762.0	761.0
17.5°	734.5	739.8	736.6	741.9	745.1	747.2	748.2	746.1
20°	710.2	716.5	714.5	718.6	722.9	726.1	726.1	722.9
22.5°	678.5	687.0	685.9	689.1	694.4	695.4	697.5	695.4
25°	643.6	650.0	648.9	652.1	658.4	658.4	659.5	659.5
27.5°	603.5	609.9	608.8	610.9	615.1	616.1	617.2	615.1
30°	560.1	563.4	563.4	566.5	569.6	570.8	570.8	567.5
32.5°	512.6	516.8	518.9	517.9	521.0	523.1	522.1	522.1
35°	469.2	470.2	471.4	472.4	473.5	475.6	473.5	472.4
37.5°	422.8	425.9	423.8	425.9	428.0	427.0	425.9	425.9
40°	380.5	381.5	379.4	381.5	382.6	382.6	382.6	380.5
42.5°	338.2	340.4	338.2	340.4	340.4	340.4	340.4	339.2
45°	295.9	298.0	298.0	299.1	299.1	298.0	298.0	298.0
47.5°	256.9	258.9	256.9	258.9	260.0	257.9	257.9	257.9
50°	219.9	218.8	218.8	219.9	219.9	219.9	219.9	218.8
52.5°	181.8	182.9	182.9	182.9	183.9	182.9	183.9	183.9
55°	149.0	149.0	149.0	150.1	149.0	149.0	150.1	151.1
57.5°	119.4	118.4	117.4	117.4	118.4	117.4	117.4	117.4
60°	92.0	90.9	89.9	89.9	89.9	89.9	89.9	88.8
62.5°	68.8	68.8	68.8	69.8	69.8	69.8	69.8	70.8
65°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	56.0
67.5°	44.4	44.4	44.4	45.5	45.5	45.5	45.5	45.5
70°	37.0	37.0	38.0	37.0	38.0	38.0	38.0	38.0
72.5°	25.4	25.4	25.4	25.4	25.4	24.2	25.4	24.2
75°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	9.5
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)