

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: P252568

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252568
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_6B15D010 EC6B10209727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1305.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

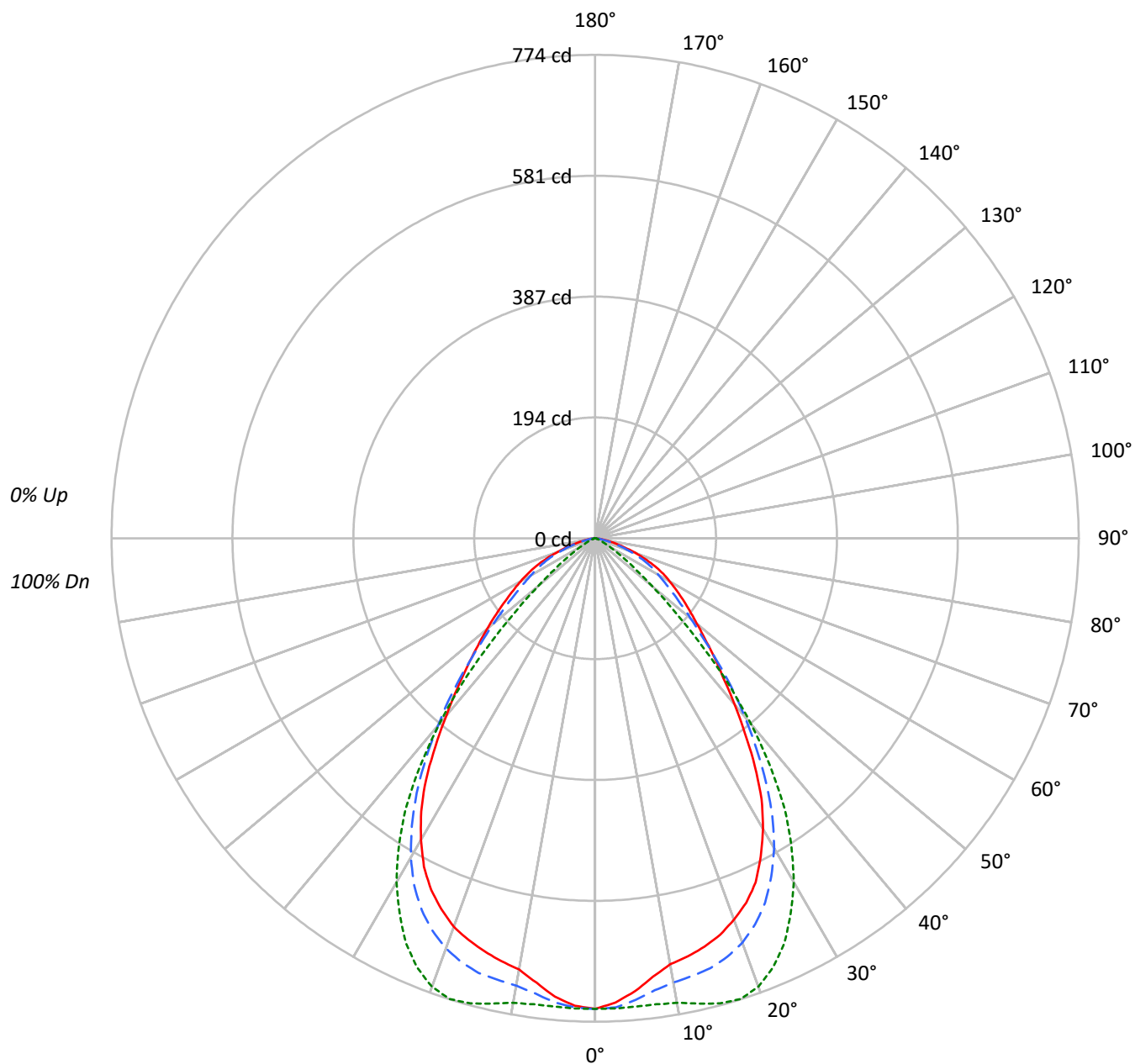
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49159	49159	49159
5°	47683	49288	48259
10°	45876	50023	46446
15°	45712	52068	46239
20°	45114	53036	45961
25°	43767	51541	44703
30°	40484	47905	41998
35°	35521	42116	37600
40°	29595	33010	31528
45°	24911	21774	26591
50°	21568	11936	22898
55°	19518	6347	20019
60°	17954	3288	17954
65°	16271	1760	15869
70°	13124	992	12132
75°	9024	655	8344
80°	5861	338	5222
85°	3892	674	3294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	5.4
10°-20°	203.2	15.6
20°-30°	300.2	23.0
30°-40°	303.2	23.2
40°-50°	209.0	16.0
50°-60°	120.0	9.2
60°-70°	69.9	5.4
70°-80°	25.5	2.0
80°-90°	3.9	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°	573.6	44.0
0°-40°	876.8	67.2
0°-60°	1205.8	92.4
0°-90°	1305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	754	754	754	754	754	
5°	728	742	753	746	737	68
15°	677	712	771	720	685	191
25°	608	644	716	657	621	277
35°	446	476	529	498	472	277
45°	270	274	236	291	288	210
55°	172	151	56	157	176	154
65°	105	89	11	88	103	103
75°	36	29	3	28	33	40
85°	5	3	1	4	4	7
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°	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5
2.5°	743.9	744.8	745.6	744.8	745.6	749.1	746.5	748.2	748.2	749.1	751.8
5°	728.1	728.1	729.9	729.0	731.6	735.1	732.5	735.1	736.0	737.8	742.1
7.5°	708.1	708.1	709.0	709.0	712.5	716.0	714.2	717.8	721.2	724.8	729.9
10°	692.5	694.2	694.2	695.1	698.6	702.9	702.0	706.4	709.9	715.1	722.1
12.5°	685.5	686.4	686.4	688.1	691.6	696.0	695.1	699.5	704.6	710.8	717.8
15°	676.8	678.5	677.6	679.4	682.9	687.2	686.4	690.8	696.9	702.9	712.5
17.5°	665.5	666.4	667.2	667.2	670.8	674.1	674.1	678.5	685.5	692.5	702.9
20°	649.8	651.5	651.5	652.4	655.0	660.2	659.4	663.8	670.8	677.6	689.0
22.5°	631.5	632.4	632.4	633.2	637.6	640.2	641.1	644.6	650.6	658.5	669.0
25°	608.0	608.9	608.0	610.6	612.4	617.5	615.9	620.1	627.1	633.2	643.8
27.5°	574.0	575.8	575.8	576.6	581.0	585.4	585.4	589.8	595.8	600.1	610.6
30°	537.4	540.0	537.4	541.8	543.5	547.0	549.6	552.2	557.5	563.5	573.1
32.5°	495.6	494.8	495.6	497.4	502.6	505.2	507.0	509.5	514.8	520.0	527.9
35°	446.0	447.8	448.6	452.1	452.1	456.4	457.2	459.0	466.9	470.4	476.5
37.5°	393.8	395.5	396.4	398.0	401.5	403.2	405.9	408.5	413.8	419.9	423.4
40°	347.5	347.5	348.4	350.1	352.8	353.6	356.2	359.8	363.2	368.5	371.9
42.5°	304.0	304.9	304.0	305.8	308.4	311.9	311.0	315.4	316.1	319.6	322.2
45°	270.0	270.0	268.2	270.0	270.0	273.5	272.6	274.4	273.5	275.2	273.5
47.5°	237.8	238.6	237.8	238.6	238.6	238.6	239.5	237.8	238.6	236.0	230.9
50°	212.5	213.4	211.6	212.5	211.6	210.8	211.6	209.0	208.1	204.8	199.5
52.5°	190.8	189.9	189.0	189.0	189.0	188.1	187.2	184.6	182.0	178.5	172.5
55°	171.6	170.8	169.9	169.9	168.1	167.2	167.2	164.6	162.0	157.6	150.8
57.5°	154.1	153.2	152.4	152.4	151.5	149.9	149.9	147.2	143.8	138.5	132.4
60°	137.6	137.6	137.6	136.8	136.8	135.0	135.0	132.4	128.9	123.6	116.8
62.5°	122.9	122.0	122.0	122.0	122.0	121.1	120.2	118.5	115.0	109.8	103.6
65°	105.4	105.4	105.4	105.4	104.5	104.5	104.5	101.9	100.1	95.0	88.9
67.5°	86.2	86.2	86.2	86.2	85.4	86.2	86.2	84.5	82.8	77.5	72.2
70°	68.8	68.0	67.1	68.0	67.1	67.1	68.0	66.2	65.4	61.0	55.8
72.5°	50.5	51.4	50.5	50.5	50.5	49.6	50.5	49.6	47.9	44.4	41.0
75°	35.8	36.6	36.6	35.8	35.8	35.8	34.9	34.9	33.1	30.5	28.8
77.5°	24.4	24.4	24.4	24.4	23.5	23.5	23.5	22.6	21.8	20.0	18.2
80°	15.6	15.6	15.6	15.6	14.8	14.8	14.8	13.9	13.9	12.2	10.5
82.5°	9.6	9.6	9.6	9.6	9.6	9.6	8.8	8.8	7.9	7.0	6.1
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4	3.5	2.6
87.5°	1.8	1.8	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5
2.5°	750.0	750.9	750.9	750.9	753.5	754.4	751.8	749.1	754.4	753.5	755.1
5°	741.2	743.9	745.6	746.5	749.1	750.9	748.2	747.4	751.8	752.6	753.5
7.5°	730.8	735.1	739.5	741.2	744.8	746.5	745.6	745.6	750.9	752.6	752.6
10°	723.9	729.9	735.1	739.5	743.9	746.5	746.5	747.4	753.5	755.1	756.9
12.5°	722.1	729.9	736.9	743.0	746.5	750.9	751.8	754.4	760.4	763.0	763.0
15°	717.8	728.1	736.9	744.8	750.0	755.1	756.9	762.1	769.1	770.9	772.6
17.5°	709.9	720.4	730.8	740.4	747.4	751.8	756.9	762.1	770.9	773.5	774.4
20°	696.0	708.1	718.6	728.1	735.1	741.2	746.5	752.6	760.4	763.9	764.8
22.5°	675.0	687.2	697.8	708.1	715.1	720.4	725.6	732.5	740.4	743.9	743.9
25°	649.8	661.1	672.4	680.2	687.2	693.4	696.0	703.8	711.6	716.0	716.0
27.5°	617.5	628.0	638.5	647.1	651.5	656.8	661.1	668.1	674.1	677.6	681.1
30°	576.6	587.1	596.6	605.4	610.6	615.9	620.1	625.4	631.5	635.9	636.8
32.5°	532.2	540.9	550.5	559.2	564.4	566.1	570.5	575.8	581.0	584.5	585.4
35°	483.4	489.5	495.6	503.5	508.6	508.6	513.0	516.5	520.9	528.8	527.0
37.5°	425.9	434.6	439.0	441.6	445.1	448.6	449.5	453.8	459.0	460.8	463.4
40°	371.9	374.5	377.1	377.1	380.6	380.6	380.6	381.5	386.8	387.6	391.1
42.5°	317.9	317.9	315.4	312.8	313.6	312.8	308.4	308.4	311.0	314.5	314.5
45°	267.4	261.2	253.5	247.4	243.0	241.2	236.0	236.0	235.1	236.0	239.5
47.5°	224.8	214.2	201.2	189.0	184.6	181.1	173.4	169.9	168.1	169.0	170.8
50°	189.0	177.8	162.9	148.1	140.2	135.9	126.2	120.2	119.4	117.6	121.1
52.5°	162.9	149.0	133.2	115.9	108.0	101.0	90.6	85.4	81.9	81.9	82.8
55°	140.2	125.4	108.0	90.6	82.8	77.5	67.1	60.1	56.6	55.8	58.4
57.5°	121.1	107.1	89.8	72.2	64.5	58.4	47.9	41.8	39.2	37.5	38.4
60°	106.2	92.4	74.9	58.4	51.4	44.4	35.8	28.8	25.2	25.2	26.1
62.5°	92.4	79.2	63.6	47.9	41.8	35.8	26.1	20.0	17.4	16.5	17.4
65°	78.4	66.2	53.1	40.1	34.0	28.8	20.9	15.6	12.2	11.4	12.2
67.5°	63.6	54.0	42.6	32.2	27.0	22.6	15.6	11.4	8.8	7.9	8.8
70°	49.6	41.0	32.2	23.5	20.0	16.5	11.4	8.8	6.1	5.2	6.1
72.5°	35.8	29.6	22.6	16.5	13.9	11.4	7.9	6.1	4.4	3.5	4.4
75°	24.4	20.0	14.8	10.5	8.8	7.9	5.2	3.5	2.6	2.6	2.6
77.5°	15.6	12.2	9.6	7.0	5.2	4.4	2.6	1.8	1.8	1.8	1.8
80°	8.8	7.0	5.2	3.5	2.6	2.6	1.8	1.8	0.9	0.9	0.9
82.5°	5.2	3.5	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.6	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	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°	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5
2.5°	751.8	752.6	750.0	753.5	750.9	754.4	754.4	750.9	751.8	750.0	753.5
5°	750.0	750.0	748.2	750.9	747.4	750.9	750.0	743.9	745.6	742.1	745.6
7.5°	750.0	748.2	745.6	748.2	743.9	746.5	743.0	736.9	735.1	730.8	730.8
10°	752.6	750.0	746.5	747.4	743.0	743.9	738.6	729.9	727.2	722.1	720.4
12.5°	758.6	756.0	750.9	752.6	746.5	746.5	739.5	729.0	723.9	716.9	715.1
15°	767.4	763.0	756.9	757.8	751.8	748.2	739.5	727.2	720.4	710.8	708.1
17.5°	769.1	764.8	756.9	756.9	749.1	744.8	734.2	720.4	711.6	702.0	696.9
20°	759.5	755.1	746.5	745.6	738.6	732.5	721.2	707.2	698.6	688.1	683.8
22.5°	739.5	734.2	726.5	725.6	718.6	715.1	702.9	689.0	680.2	669.9	666.4
25°	709.9	707.2	699.5	698.6	692.5	688.1	677.6	664.6	656.8	646.2	642.9
27.5°	675.0	672.4	664.6	664.6	657.6	655.0	645.4	633.2	627.1	617.5	613.2
30°	633.2	629.8	625.4	624.5	618.4	615.9	607.1	595.8	589.8	581.9	580.1
32.5°	583.6	581.0	578.4	577.5	571.4	568.8	562.6	551.4	546.1	539.1	536.5
35°	526.1	524.4	521.8	520.9	518.2	515.6	509.5	500.9	498.2	493.0	490.4
37.5°	459.9	461.6	459.9	459.9	457.2	458.1	452.9	447.8	445.1	441.6	439.9
40°	388.5	392.0	394.6	394.6	393.8	397.2	396.4	392.0	391.1	389.4	388.5
42.5°	316.1	317.9	323.1	326.6	325.8	334.5	335.4	338.9	341.5	339.8	340.6
45°	240.4	245.6	252.6	256.1	260.5	271.8	277.9	284.9	290.9	294.4	293.5
47.5°	173.4	179.4	187.2	192.5	200.4	214.2	230.0	238.6	247.4	251.8	256.1
50°	125.4	131.5	141.1	149.0	154.1	173.4	189.9	201.2	210.8	216.9	221.2
52.5°	88.0	95.0	105.4	112.4	120.2	138.5	157.6	170.8	181.1	189.0	193.4
55°	61.0	68.8	78.4	85.4	94.1	113.2	131.5	145.5	156.8	163.8	169.0
57.5°	42.6	49.6	59.2	65.4	74.0	92.4	110.6	124.5	135.9	142.9	149.0
60°	28.8	35.8	45.2	51.4	58.4	76.6	93.2	108.0	118.5	125.4	131.5
62.5°	20.0	26.1	35.8	41.8	47.9	63.6	79.2	92.4	102.8	110.6	115.9
65°	15.6	20.9	28.8	34.0	40.1	53.1	66.2	77.5	88.0	95.9	99.2
67.5°	11.4	16.5	22.6	27.0	31.4	42.6	54.0	62.8	72.2	78.4	82.8
70°	7.9	11.4	16.5	20.0	23.5	32.2	41.0	48.8	55.8	60.1	63.6
72.5°	6.1	7.9	11.4	13.9	16.5	22.6	29.6	35.8	41.0	44.4	47.9
75°	3.5	5.2	7.9	9.6	11.4	15.6	20.0	24.4	27.9	30.5	32.2
77.5°	1.8	2.6	4.4	5.2	7.0	9.6	13.1	15.6	18.2	20.0	21.8
80°	1.8	1.8	2.6	2.6	3.5	5.2	7.0	8.8	10.5	12.2	13.1
82.5°	0.9	0.9	1.8	1.8	1.8	2.6	3.5	5.2	6.1	7.0	7.9
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.6	3.5	4.4	4.4
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.6
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	753.5	753.5	753.5	753.5	753.5	753.5	753.5	753.5
2.5°	750.9	752.6	751.8	753.5	750.9	750.0	751.8	749.1
5°	741.2	742.1	741.2	741.2	739.5	737.8	739.5	736.9
7.5°	726.5	726.5	723.9	723.9	720.4	718.6	718.6	717.8
10°	714.2	711.6	709.0	709.9	704.6	702.9	702.0	701.1
12.5°	708.1	706.4	702.0	702.0	696.9	695.1	694.2	693.4
15°	701.1	697.8	694.2	693.4	689.0	687.2	686.4	684.6
17.5°	689.0	686.4	682.0	682.0	677.6	676.8	675.0	674.1
20°	675.9	672.4	669.0	669.0	663.8	663.8	661.1	662.0
22.5°	657.6	655.0	651.5	651.5	647.1	646.2	643.8	642.9
25°	635.9	632.4	629.8	628.9	625.4	623.6	622.8	621.0
27.5°	607.1	604.5	601.9	600.1	595.8	594.9	592.2	593.1
30°	571.4	569.6	568.8	567.0	561.9	560.1	560.1	557.5
32.5°	532.2	529.6	527.9	525.2	520.9	520.0	517.4	518.2
35°	484.2	480.8	478.2	479.1	473.9	473.0	471.2	472.1
37.5°	434.6	431.1	427.6	426.8	422.5	422.5	419.9	419.9
40°	383.2	379.8	378.0	378.0	372.8	373.6	371.0	370.2
42.5°	337.1	333.6	332.8	331.9	329.2	328.4	325.8	326.6
45°	293.5	292.6	292.6	290.9	288.2	287.5	288.2	288.2
47.5°	255.2	256.1	255.2	255.2	253.5	255.2	253.5	254.4
50°	223.0	224.8	224.8	224.8	223.9	224.8	224.8	225.6
52.5°	196.0	198.6	197.8	198.6	197.8	199.5	198.6	199.5
55°	172.5	174.2	175.1	176.0	176.0	176.0	176.0	176.0
57.5°	150.8	153.2	154.1	155.0	155.0	156.8	155.0	155.0
60°	133.2	135.9	136.8	137.6	137.6	138.5	136.8	137.6
62.5°	117.6	120.2	120.2	121.1	121.1	121.1	119.4	120.2
65°	101.9	102.8	103.6	103.6	102.8	102.8	101.9	102.8
67.5°	84.5	85.4	84.5	84.5	83.6	83.6	81.9	82.8
70°	65.4	65.4	66.2	65.4	64.5	65.4	64.5	63.6
72.5°	48.8	48.8	48.8	47.9	47.9	47.0	47.9	47.9
75°	33.1	33.1	34.0	34.0	34.0	34.0	33.1	33.1
77.5°	21.8	21.8	21.8	21.8	22.6	21.8	21.8	21.8
80°	13.9	13.9	14.8	14.8	13.9	13.9	13.9	13.9
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8
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)