

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: P252463

Luminaire Tested: **LE_6B15D010 EC6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1355.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

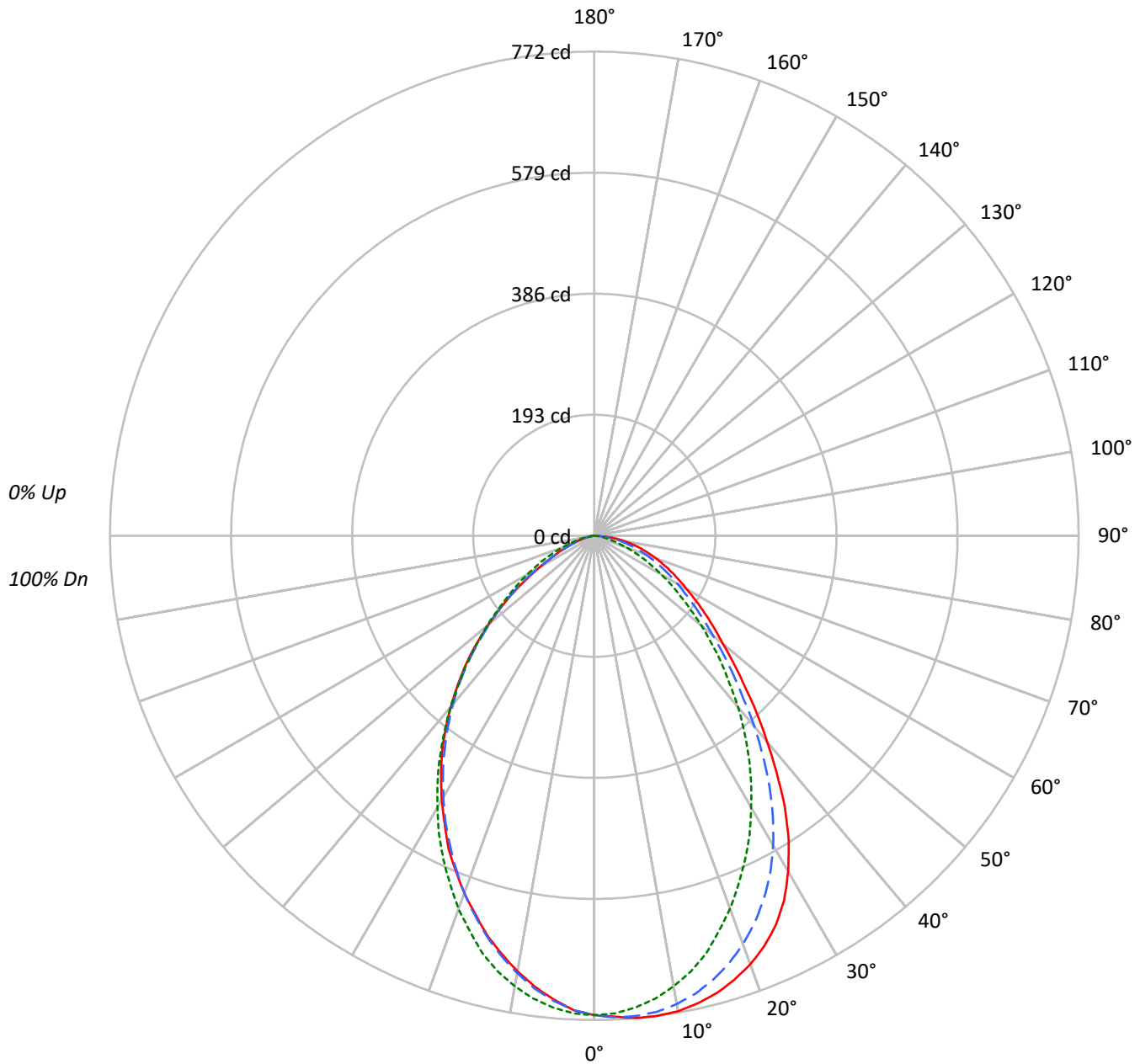
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
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	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	37		48	42	37		47
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49870	49870	49870
5°	50552	49438	48600
10°	50997	48321	46704
15°	50988	46536	44537
20°	50488	43934	42087
25°	49295	40967	39592
30°	46548	37667	36627
35°	42195	34159	33737
40°	36442	30387	30285
45°	31241	26443	26646
50°	27150	22634	22309
55°	24398	19086	17869
60°	22169	16062	13166
65°	20825	13276	9664
70°	19838	10320	7077
75°	19006	7512	4815
80°	17959	5185	3193
85°	15869	3144	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	5.3
10°-20°	195.8	14.5
20°-30°	271.9	20.1
30°-40°	281.6	20.8
40°-50°	231.4	17.1
50°-60°	159.1	11.7
60°-70°	91.4	6.7
70°-80°	42.0	3.1
80°-90°	10.2	0.8
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°	539.2	39.8
0°-40°	820.8	60.6
0°-60°	1211.3	89.4
0°-90°	1355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	764	764	764	764	764	
5°	772	769	755	744	742	74
15°	755	733	689	661	659	213
25°	685	639	569	545	550	313
35°	530	486	429	416	424	329
45°	339	313	287	284	289	264
55°	214	194	168	158	157	193
65°	135	118	86	60	63	134
75°	75	60	30	19	19	80
85°	21	15	4	2	2	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°	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4
2.5°	767.6	774.0	769.8	768.6	770.8	770.8	770.8	767.6	769.8	766.5	768.6
5°	771.9	777.1	772.9	770.8	772.9	774.0	770.8	768.6	771.9	767.6	768.6
7.5°	771.9	777.1	772.9	771.9	772.9	772.9	771.9	767.6	769.8	765.5	765.5
10°	769.8	774.0	769.8	767.6	768.6	767.6	767.6	762.2	763.4	758.0	758.0
12.5°	763.4	768.6	763.4	761.2	761.2	761.2	758.0	753.8	754.9	748.5	747.4
15°	754.9	759.1	753.8	751.6	751.6	750.6	748.5	742.1	742.1	735.8	732.6
17.5°	742.1	746.4	742.1	739.0	737.9	735.8	733.6	727.2	725.1	717.8	714.5
20°	727.2	730.5	726.2	723.0	720.9	718.8	714.5	708.1	706.0	698.6	693.2
22.5°	708.1	712.4	706.0	702.9	700.8	697.5	693.2	686.9	683.8	674.1	667.8
25°	684.8	686.9	681.6	678.4	674.1	672.0	668.9	660.4	657.2	646.6	639.1
27.5°	655.1	657.2	650.9	648.8	643.4	641.2	637.0	629.6	625.4	614.8	607.2
30°	617.9	620.0	615.8	612.6	608.4	604.1	600.9	593.5	587.1	576.5	570.1
32.5°	576.5	579.6	575.5	571.2	563.8	564.9	559.5	552.1	546.8	537.2	529.8
35°	529.8	531.9	526.6	525.5	521.2	517.0	511.8	506.4	503.2	492.6	486.2
37.5°	477.8	483.1	477.8	473.5	471.4	468.2	465.0	457.6	455.5	449.1	440.6
40°	427.9	431.0	427.9	423.6	420.4	420.4	416.1	412.0	406.6	400.2	397.1
42.5°	383.2	381.1	380.1	378.0	373.8	372.6	371.6	366.2	363.1	356.8	351.4
45°	338.6	339.8	337.6	336.5	333.4	331.2	329.1	324.9	323.9	317.5	313.2
47.5°	301.5	300.5	298.4	298.4	296.2	294.1	292.0	288.8	287.8	282.4	278.1
50°	267.5	268.6	267.5	266.5	263.2	262.2	260.1	258.0	255.9	250.5	246.4
52.5°	240.0	238.9	237.9	237.9	234.6	233.6	231.5	229.4	227.2	221.9	218.8
55°	214.5	214.5	213.4	212.4	209.1	208.1	207.0	204.9	201.8	197.5	194.2
57.5°	191.1	191.1	190.0	189.0	186.9	186.9	184.8	182.6	180.5	176.2	172.0
60°	169.9	170.9	169.9	168.8	166.6	166.6	165.6	162.5	161.4	156.1	152.9
62.5°	151.9	151.9	151.9	150.8	149.8	147.6	147.6	144.4	142.2	139.1	134.9
65°	134.9	134.9	134.9	133.8	131.6	130.6	129.5	127.4	125.2	122.1	117.9
67.5°	118.9	118.9	118.9	117.9	115.8	114.6	113.6	112.5	109.4	106.1	101.9
70°	104.0	104.0	103.0	101.9	100.9	99.8	98.8	96.6	94.5	90.2	87.0
72.5°	89.1	89.1	89.1	87.0	86.0	86.0	83.9	82.8	80.8	76.5	73.2
75°	75.4	74.4	74.4	73.2	72.2	71.1	70.1	69.0	65.9	63.8	59.5
77.5°	61.6	61.6	60.5	59.5	59.5	58.4	57.4	55.2	54.1	51.0	47.8
80°	47.8	47.8	47.8	47.8	46.8	45.6	45.6	43.5	42.5	39.2	37.1
82.5°	36.1	35.0	35.0	35.0	34.0	32.9	32.9	31.9	30.8	28.6	26.5
85°	21.2	20.1	20.1	20.1	19.1	19.1	18.0	18.0	17.0	14.9	14.9
87.5°	6.4	6.4	7.4	7.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2
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°	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4
2.5°	766.5	769.8	765.5	764.4	768.6	766.5	765.5	763.4	764.4	762.2	759.1
5°	765.5	769.8	764.4	761.2	766.5	763.4	761.2	759.1	759.1	754.9	752.8
7.5°	762.2	764.4	759.1	755.9	759.1	755.9	753.8	750.6	749.5	744.2	741.1
10°	753.8	755.9	749.5	745.2	748.5	744.2	741.1	737.9	735.8	729.4	725.1
12.5°	742.1	743.1	735.8	730.5	732.6	729.4	724.1	719.9	717.8	711.4	706.0
15°	726.2	727.2	718.8	711.4	713.5	709.2	702.9	698.6	695.4	689.0	681.6
17.5°	707.1	706.0	696.5	689.0	690.1	684.8	678.4	672.0	667.8	660.4	655.1
20°	685.9	682.6	672.0	663.5	664.6	658.2	650.9	644.5	639.1	632.8	625.4
22.5°	659.4	655.1	645.5	634.9	636.0	630.6	620.0	614.8	609.4	600.9	594.5
25°	630.6	624.2	614.8	604.1	604.1	597.8	589.2	582.9	577.5	569.1	561.6
27.5°	596.6	593.5	580.8	572.2	571.2	564.9	557.4	550.0	543.6	536.1	528.8
30°	559.5	554.2	544.6	535.1	533.0	527.6	520.2	511.8	507.5	500.0	493.8
32.5°	520.2	514.9	504.2	494.8	493.8	489.5	483.1	474.6	470.4	465.0	460.8
35°	475.6	473.5	462.9	455.5	455.5	451.2	444.9	437.4	434.2	428.9	423.6
37.5°	433.1	430.0	420.4	414.0	414.0	408.8	402.4	399.2	396.0	391.8	388.6
40°	388.6	386.5	379.0	372.6	373.8	369.5	365.2	361.0	358.9	356.8	353.5
42.5°	347.1	345.0	339.8	334.4	334.4	331.2	327.0	323.9	321.8	318.5	317.5
45°	310.0	306.9	302.6	297.2	297.2	294.1	292.0	289.9	288.8	286.6	283.5
47.5°	273.9	271.8	267.5	262.2	262.2	262.2	258.0	254.8	254.8	252.6	251.6
50°	243.1	240.0	236.8	232.5	232.5	230.4	227.2	224.0	224.0	223.0	220.9
52.5°	214.5	212.4	208.1	203.9	203.9	201.8	198.5	197.5	196.4	193.2	192.1
55°	190.0	187.9	184.8	179.4	178.4	177.2	174.1	172.0	170.9	167.8	167.8
57.5°	167.8	165.6	160.4	157.1	156.1	154.0	150.8	148.6	147.6	145.5	143.4
60°	148.6	145.5	141.2	137.0	135.9	133.8	130.6	128.5	127.4	123.1	121.0
62.5°	130.6	127.4	123.1	118.9	117.9	115.8	111.5	109.4	107.2	103.0	100.9
65°	113.6	110.4	106.1	101.9	99.8	98.8	94.5	91.2	89.1	86.0	81.8
67.5°	97.6	94.5	90.2	84.9	84.9	81.8	78.6	75.4	72.2	69.0	65.9
70°	82.8	79.6	75.4	71.1	70.1	68.0	64.8	60.5	58.4	54.1	51.0
72.5°	69.0	65.9	61.6	57.4	56.2	54.1	51.0	46.8	43.5	40.4	37.1
75°	56.2	53.1	48.9	45.6	44.6	42.5	39.2	35.0	31.9	29.8	26.5
77.5°	44.6	41.4	38.2	35.0	34.0	31.9	28.6	26.5	23.4	21.2	18.0
80°	34.0	31.9	28.6	26.5	25.5	23.4	21.2	18.0	15.9	13.8	12.8
82.5°	24.4	22.2	20.1	17.0	17.0	14.9	13.8	11.6	9.5	8.5	7.4
85°	13.8	11.6	10.6	9.5	8.5	8.5	7.4	6.4	5.2	4.2	4.2
87.5°	4.2	4.2	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4
2.5°	759.1	760.1	758.0	760.1	758.0	759.1	757.0	759.1	757.0	759.1	754.9
5°	751.6	751.6	748.5	750.6	748.5	749.5	745.2	746.4	744.2	746.4	742.1
7.5°	739.0	740.0	734.8	736.9	733.6	733.6	730.5	731.5	728.4	729.4	726.2
10°	724.1	723.0	717.8	719.9	715.6	715.6	712.4	712.4	708.1	709.2	705.0
12.5°	702.9	701.8	695.4	697.5	693.2	693.2	690.1	690.1	685.9	688.0	683.8
15°	678.4	677.4	671.0	672.0	667.8	667.8	663.5	664.6	661.4	663.5	659.4
17.5°	650.9	649.8	643.4	644.5	639.1	640.2	637.0	636.0	633.9	634.9	631.8
20°	622.1	620.0	613.6	614.8	612.6	609.4	607.2	608.4	606.2	608.4	605.1
22.5°	592.4	588.1	582.9	582.9	580.8	580.8	577.5	579.6	575.5	578.6	576.5
25°	558.5	555.2	551.0	553.1	548.9	548.9	545.8	546.8	544.6	546.8	544.6
27.5°	525.5	523.4	517.0	519.1	516.0	517.0	513.9	514.9	513.9	516.0	513.9
30°	490.5	489.5	485.2	485.2	484.1	483.1	482.0	482.0	481.0	484.1	482.0
32.5°	457.6	454.4	450.1	453.4	448.0	451.2	449.1	451.2	449.1	451.2	450.1
35°	423.6	422.5	417.2	418.2	417.2	417.2	416.1	416.1	416.1	419.4	419.4
37.5°	387.5	386.5	383.2	384.4	382.2	381.1	381.1	383.2	383.2	385.4	385.4
40°	352.5	353.5	350.4	350.4	349.2	349.2	349.2	351.4	350.4	352.5	351.4
42.5°	317.5	317.5	314.2	315.4	314.2	315.4	315.4	317.5	317.5	318.5	317.5
45°	284.5	284.5	283.5	284.5	282.4	283.5	282.4	284.5	283.5	284.5	284.5
47.5°	251.6	251.6	251.6	250.5	250.5	250.5	250.5	250.5	249.5	251.6	250.5
50°	220.9	221.9	220.9	220.9	219.8	220.9	219.8	219.8	217.6	218.8	218.8
52.5°	193.2	193.2	191.1	191.1	191.1	190.0	190.0	190.0	189.0	189.0	186.9
55°	166.6	166.6	164.6	164.6	163.5	162.5	161.4	161.4	158.2	158.2	155.0
57.5°	142.2	141.2	138.0	138.0	135.9	134.9	133.8	132.8	130.6	128.5	127.4
60°	120.0	117.9	115.8	114.6	112.5	110.4	108.2	106.1	104.0	103.0	101.9
62.5°	98.8	95.5	93.4	92.4	90.2	87.0	84.9	82.8	80.8	79.6	77.5
65°	79.6	76.5	73.2	72.2	70.1	68.0	64.8	62.6	60.5	59.5	59.5
67.5°	62.6	59.5	55.2	55.2	53.1	51.0	48.9	46.8	45.6	46.8	46.8
70°	46.8	44.6	41.4	40.4	38.2	36.1	35.0	35.0	35.0	36.1	35.0
72.5°	35.0	31.9	29.8	28.6	27.6	26.5	26.5	26.5	25.5	26.5	26.5
75°	24.4	22.2	20.1	20.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
77.5°	17.0	14.9	13.8	13.8	13.8	12.8	12.8	12.8	12.8	12.8	12.8
80°	10.6	10.6	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	6.4	6.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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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CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4
2.5°	754.9	758.0	753.8	757.0	755.9	754.9	752.8	757.0
5°	742.1	743.1	739.0	743.1	742.1	740.0	737.9	742.1
7.5°	724.1	727.2	722.0	726.2	725.1	723.0	720.9	725.1
10°	703.9	707.1	702.9	706.0	706.0	703.9	700.8	705.0
12.5°	681.6	683.8	679.5	683.8	682.6	680.5	679.5	682.6
15°	657.2	660.4	656.1	659.4	658.2	657.2	656.1	659.4
17.5°	630.6	633.9	630.6	633.9	633.9	630.6	629.6	631.8
20°	604.1	606.2	603.0	606.2	605.1	605.1	603.0	606.2
22.5°	574.4	577.5	575.5	577.5	576.5	576.5	575.5	577.5
25°	544.6	547.9	544.6	547.9	546.8	546.8	544.6	550.0
27.5°	514.9	517.0	513.9	518.1	517.0	514.9	516.0	517.0
30°	483.1	485.2	483.1	486.2	486.2	486.2	484.1	486.2
32.5°	451.2	454.4	451.2	454.4	453.4	453.4	452.2	454.4
35°	419.4	420.4	418.2	421.5	421.5	422.5	420.4	423.6
37.5°	386.5	387.5	386.5	387.5	389.6	386.5	388.6	389.6
40°	352.5	354.6	353.5	354.6	354.6	355.6	354.6	355.6
42.5°	318.5	320.6	318.5	321.8	320.6	320.6	321.8	321.8
45°	283.5	286.6	284.5	286.6	287.8	286.6	286.6	288.8
47.5°	250.5	252.6	251.6	252.6	252.6	252.6	252.6	254.8
50°	217.6	218.8	218.8	219.8	219.8	220.9	218.8	219.8
52.5°	184.8	186.9	186.9	186.9	185.8	186.9	186.9	186.9
55°	155.0	156.1	154.0	156.1	156.1	155.0	155.0	157.1
57.5°	126.4	126.4	126.4	126.4	126.4	125.2	126.4	126.4
60°	99.8	100.9	99.8	99.8	99.8	99.8	98.8	100.9
62.5°	77.5	77.5	76.5	77.5	77.5	77.5	78.6	78.6
65°	60.5	61.6	60.5	61.6	61.6	61.6	61.6	62.6
67.5°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
70°	36.1	36.1	36.1	37.1	36.1	36.1	36.1	37.1
72.5°	26.5	26.5	26.5	26.5	26.5	26.5	27.6	27.6
75°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
77.5°	12.8	12.8	12.8	13.8	12.8	13.8	12.8	12.8
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)