

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: P252359

Luminaire Tested: **LE_6B15D010 EC6B10209050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252359
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 EC6B10209050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1443.6 lumens
Efficiency: N/A
Efficacy: 100.3 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

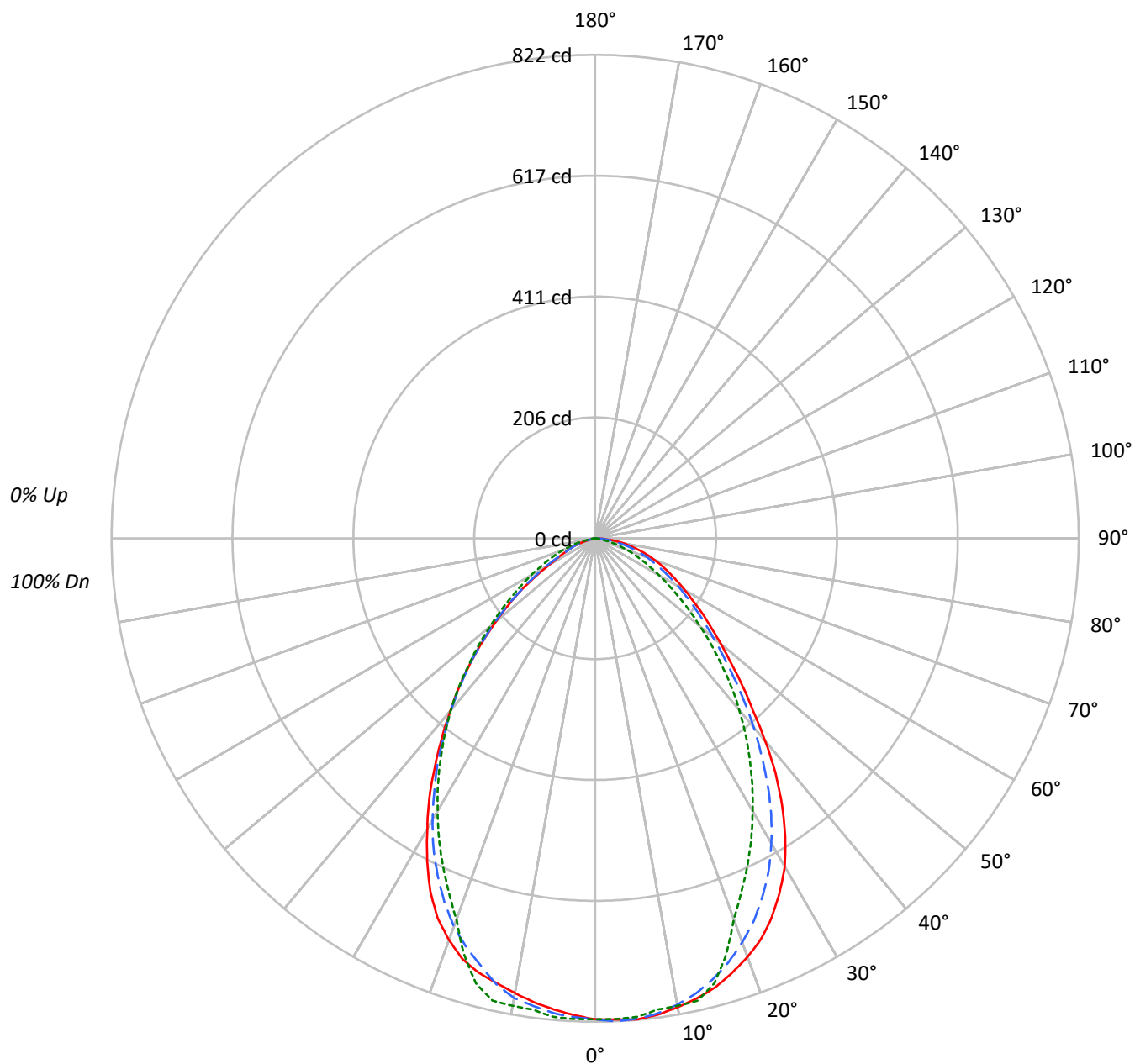
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

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°	53367	53367	53367
5°	53780	53505	52667
10°	53627	53488	52011
15°	53385	52885	51663
20°	52591	47870	50446
25°	51167	44127	47719
30°	48583	40341	42978
35°	44083	36469	37823
40°	38273	32482	32576
45°	32643	27938	27642
50°	28257	23608	22319
55°	25251	19689	17278
60°	23017	16362	11639
65°	21473	13446	8676
70°	20448	10949	7287
75°	19283	7764	2395
80°	18372	3982	789
85°	15046	2321	0



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	5.4
10°-20°	216.1	15.0
20°-30°	298.2	20.7
30°-40°	303.5	21.0
40°-50°	243.9	16.9
50°-60°	162.2	11.2
60°-70°	92.4	6.4
70°-80°	41.5	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°	591.5	41.0
0°-40°	895.0	62.0
0°-60°	1301.1	90.1
0°-90°	1443.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	818	818	818	818	818	
5°	821	820	817	811	804	78
15°	790	776	783	752	765	222
25°	711	672	613	633	663	326
35°	554	511	458	466	475	344
45°	354	332	303	300	300	274
55°	222	207	173	154	152	200
65°	139	124	87	56	56	139
75°	76	64	31	13	10	82
85°	20	14	3	1	0	24
90°	0	0	0	0	0	



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	819.1	823.4	822.2	821.2	822.2	821.2	819.1	819.1	817.0	817.0	822.2
5°	821.2	823.4	822.2	821.2	821.2	822.2	818.0	818.0	815.9	814.9	820.1
7.5°	817.0	820.1	818.0	818.0	817.0	818.0	813.8	813.8	810.6	809.5	814.9
10°	809.5	813.8	811.6	811.6	811.6	809.5	807.4	806.4	803.1	802.1	805.2
12.5°	801.0	804.2	803.1	801.0	801.0	801.0	796.8	795.8	791.5	789.4	792.5
15°	790.4	792.5	791.5	790.4	788.2	788.2	784.0	781.9	777.6	773.4	775.5
17.5°	774.5	777.6	775.5	774.5	771.2	771.2	767.0	764.9	758.5	754.2	755.4
20°	757.5	758.5	757.5	755.4	752.1	751.1	746.9	742.6	737.2	732.0	730.9
22.5°	737.2	738.4	735.1	733.0	729.9	728.8	723.5	720.2	711.8	705.4	704.4
25°	710.8	711.8	711.8	706.5	704.4	702.2	696.9	691.6	684.1	675.6	672.5
27.5°	678.9	682.0	679.9	674.6	670.4	669.2	664.0	659.8	650.1	642.8	638.5
30°	644.9	643.8	642.8	639.5	633.1	632.1	626.8	621.5	614.0	604.5	599.2
32.5°	601.4	601.4	600.2	597.1	590.8	588.6	584.4	578.0	569.5	562.0	556.8
35°	553.5	554.6	553.5	547.1	542.9	540.8	538.6	531.2	523.8	515.2	511.0
37.5°	503.6	500.4	501.5	496.1	490.9	493.0	486.6	483.4	474.9	468.5	464.2
40°	449.4	451.5	447.2	445.1	442.0	438.8	438.8	433.5	429.2	421.8	419.6
42.5°	396.2	399.5	398.4	396.2	392.0	393.1	387.8	385.6	380.4	377.1	374.0
45°	353.8	353.8	353.8	351.6	350.6	348.5	345.2	342.1	338.9	334.6	332.5
47.5°	312.4	312.4	313.4	311.2	309.1	308.1	306.0	306.0	300.6	296.4	294.2
50°	278.4	278.4	278.4	276.2	274.1	274.1	272.0	269.9	266.6	263.5	261.4
52.5°	247.5	247.5	247.5	245.4	244.4	243.2	242.2	241.1	236.9	234.8	232.6
55°	222.0	221.0	221.0	219.9	217.8	217.8	216.8	214.6	211.4	208.2	207.1
57.5°	196.5	197.6	196.5	196.5	194.4	194.4	192.2	191.2	188.0	185.9	183.8
60°	176.4	176.4	176.4	175.2	173.1	174.2	172.1	171.0	167.9	164.6	162.5
62.5°	156.1	157.2	157.2	156.1	154.0	154.0	153.0	151.9	148.8	145.5	142.4
65°	139.1	139.1	139.1	138.1	137.0	137.0	136.0	134.9	131.8	127.5	124.2
67.5°	123.2	122.1	122.1	122.1	121.1	120.0	119.0	117.9	114.8	111.5	107.2
70°	107.2	107.2	107.2	106.2	104.1	105.1	104.1	103.0	99.9	96.6	93.5
72.5°	92.4	92.4	91.4	90.2	90.2	89.2	89.2	88.1	85.0	80.8	77.5
75°	76.5	76.5	76.5	76.5	74.4	75.4	73.2	72.2	70.1	66.9	63.8
77.5°	62.6	62.6	62.6	61.6	60.5	60.5	59.5	58.4	55.2	53.1	48.9
80°	48.9	48.9	48.9	48.9	47.8	46.8	45.6	44.6	42.5	39.2	36.1
82.5°	36.1	36.1	35.0	35.0	35.0	34.0	32.9	31.9	29.8	27.6	25.5
85°	20.1	21.2	21.2	19.1	20.1	19.1	19.1	17.0	17.0	14.9	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



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	818.0	817.0	821.2	821.2	814.9	818.0	819.1	817.0	817.0	818.0	814.9
5°	815.9	813.8	818.0	819.1	812.8	815.9	817.0	814.9	815.9	817.0	812.8
7.5°	808.5	808.5	811.6	812.8	806.4	809.5	809.5	807.4	808.5	808.5	805.2
10°	801.0	797.9	801.0	801.0	795.8	796.8	798.9	797.9	802.1	807.4	807.4
12.5°	787.2	784.0	789.4	789.4	786.1	790.4	795.8	798.9	803.1	805.2	798.9
15°	770.2	771.2	780.9	788.2	785.1	791.5	796.8	794.6	789.4	783.0	773.4
17.5°	747.9	744.8	753.2	757.5	753.2	755.4	759.6	755.4	746.9	741.5	728.8
20°	722.4	713.9	713.9	711.8	704.4	704.4	703.2	695.9	692.6	689.5	684.1
22.5°	693.8	684.1	681.0	674.6	668.2	667.1	664.0	656.5	652.2	650.1	643.8
25°	660.8	652.2	647.0	640.6	631.0	628.9	625.8	618.2	616.1	613.0	607.6
27.5°	626.8	616.1	608.8	602.4	593.9	592.9	586.5	581.1	576.9	574.8	570.5
30°	587.5	575.9	570.5	562.0	555.6	553.5	548.2	540.8	537.6	535.5	532.2
32.5°	544.0	534.4	529.1	521.6	513.1	514.2	507.9	501.5	499.4	497.2	494.0
35°	501.5	491.9	485.5	479.1	473.9	471.8	467.5	462.1	459.0	457.9	455.8
37.5°	454.8	447.2	442.0	435.6	431.4	429.2	427.1	421.8	419.6	419.6	415.4
40°	409.0	402.6	398.4	395.2	389.9	388.9	386.8	383.5	382.5	381.4	378.2
42.5°	367.6	359.1	355.9	353.8	350.6	348.5	347.4	345.2	344.2	343.1	340.0
45°	328.2	320.9	317.6	315.5	312.4	311.2	310.2	307.0	304.9	302.8	301.8
47.5°	290.0	284.8	283.6	278.4	276.2	274.1	272.0	269.9	268.8	267.8	263.5
50°	257.1	253.9	248.6	245.4	243.2	242.2	238.0	234.8	233.8	232.6	229.5
52.5°	227.4	223.1	219.9	214.6	213.5	211.4	209.2	205.0	202.9	201.9	198.6
55°	200.8	197.6	193.4	189.1	185.9	184.9	181.6	177.4	175.2	173.1	171.0
57.5°	178.5	173.1	168.9	164.6	162.5	159.4	156.1	154.0	150.9	147.6	144.5
60°	157.2	153.0	147.6	143.4	141.2	139.1	134.9	131.8	128.5	125.4	122.1
62.5°	137.0	132.8	127.5	123.2	121.1	119.0	114.8	111.5	108.4	105.1	100.9
65°	119.0	114.8	110.5	106.2	104.1	102.0	97.8	93.5	90.2	87.1	82.9
67.5°	104.1	98.8	94.5	90.2	88.1	86.0	81.8	78.6	74.4	71.1	66.9
70°	88.1	83.9	80.8	76.5	74.4	72.2	68.0	63.8	60.5	57.4	53.1
72.5°	74.4	69.0	65.9	61.6	59.5	58.4	54.1	51.0	47.8	43.5	40.4
75°	59.5	55.2	51.0	47.8	45.6	44.6	40.4	37.1	34.0	30.8	27.6
77.5°	45.6	42.5	38.2	35.0	32.9	31.9	27.6	24.4	21.2	19.1	15.9
80°	34.0	29.8	27.6	24.4	23.4	21.2	19.1	15.9	13.8	10.6	8.5
82.5°	23.4	20.1	18.0	15.9	14.9	13.8	11.6	9.5	7.4	6.4	5.2
85°	12.8	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



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	817.0	817.0	817.0	815.9	815.9	815.9	814.9	819.1	814.9	813.8	817.0
5°	815.9	813.8	813.8	813.8	813.8	812.8	811.6	813.8	810.6	809.5	809.5
7.5°	809.5	808.5	808.5	807.4	806.4	805.2	804.2	805.2	802.1	801.0	801.0
10°	810.6	808.5	808.5	805.2	803.1	800.0	796.8	797.9	793.6	790.4	790.4
12.5°	797.9	792.5	789.4	786.1	784.0	783.0	778.8	780.9	776.6	775.5	775.5
15°	769.1	762.8	757.5	755.4	755.4	753.2	750.0	754.2	752.1	753.2	758.5
17.5°	724.5	721.4	718.1	717.1	718.1	720.2	722.4	728.8	728.8	732.0	737.2
20°	685.2	683.1	685.2	685.2	686.2	690.5	694.8	700.1	702.2	705.4	712.9
22.5°	647.0	647.0	649.1	652.2	651.2	658.6	659.8	669.2	669.2	675.6	682.0
25°	609.8	609.8	611.9	613.0	615.1	619.4	623.6	631.0	633.1	639.5	644.9
27.5°	573.8	572.6	572.6	573.8	575.9	581.1	583.2	591.8	595.0	599.2	604.5
30°	533.4	532.2	534.4	536.5	535.5	540.8	544.0	550.4	552.5	556.8	561.0
32.5°	495.1	495.1	495.1	497.2	497.2	501.5	501.5	508.9	508.9	512.1	516.4
35°	455.8	455.8	456.9	457.9	459.0	460.0	461.1	465.4	466.4	467.5	469.6
37.5°	418.6	417.5	418.6	418.6	416.5	420.8	420.8	425.0	421.8	425.0	426.0
40°	380.4	380.4	379.2	379.2	379.2	381.4	379.2	382.5	380.4	382.5	381.4
42.5°	341.0	341.0	338.9	341.0	340.0	340.0	340.0	342.1	338.9	341.0	342.1
45°	301.8	300.6	300.6	299.6	299.6	299.6	300.6	300.6	299.6	301.8	301.8
47.5°	263.5	262.4	262.4	262.4	262.4	263.5	260.2	262.4	260.2	260.2	260.2
50°	230.5	229.5	228.4	227.4	226.2	226.2	225.2	225.2	223.1	222.0	221.0
52.5°	198.6	197.6	195.5	195.5	194.4	193.4	190.1	190.1	187.0	185.9	185.9
55°	170.0	166.8	165.8	163.6	163.6	161.5	159.4	157.2	154.0	151.9	151.9
57.5°	143.4	140.2	138.1	137.0	136.0	133.9	129.6	128.5	124.2	123.2	122.1
60°	120.0	116.9	113.6	111.5	110.5	107.2	103.0	100.9	98.8	95.6	92.4
62.5°	97.8	94.5	90.2	89.2	87.1	83.9	80.8	77.5	75.4	72.2	70.1
65°	78.6	75.4	72.2	70.1	68.0	64.8	61.6	58.4	56.2	55.2	54.1
67.5°	63.8	59.5	56.2	55.2	53.1	51.0	47.8	46.8	44.6	44.6	44.6
70°	49.9	46.8	43.5	42.5	41.4	39.2	37.1	37.1	37.1	37.1	37.1
72.5°	37.1	35.0	31.9	30.8	29.8	28.6	26.5	27.6	26.5	26.5	26.5
75°	23.4	21.2	19.1	18.0	17.0	15.9	14.9	13.8	12.8	11.6	11.6
77.5°	12.8	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



TEST NUMBER: P252359

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	811.6	814.9	811.6	814.9	814.9	814.9	814.9	811.6
5°	806.4	808.5	805.2	807.4	808.5	807.4	807.4	804.2
7.5°	796.8	798.9	795.8	798.9	800.0	798.9	797.9	795.8
10°	787.2	788.2	785.1	787.2	789.4	789.4	788.2	785.1
12.5°	772.4	775.5	772.4	774.5	776.6	777.6	777.6	774.5
15°	755.4	760.6	758.5	761.8	764.9	766.0	766.0	764.9
17.5°	738.4	743.6	740.5	745.8	749.0	751.1	752.1	750.0
20°	713.9	720.2	718.1	722.4	726.6	729.9	729.9	726.6
22.5°	682.0	690.5	689.5	692.6	698.0	699.0	701.1	699.0
25°	647.0	653.4	652.2	655.5	661.9	661.9	662.9	662.9
27.5°	606.6	613.0	611.9	614.0	618.2	619.4	620.4	618.2
30°	563.1	566.2	566.2	569.5	572.6	573.8	573.8	570.5
32.5°	515.2	519.5	521.6	520.6	523.8	525.9	524.9	524.9
35°	471.8	472.8	473.9	474.9	476.0	478.1	476.0	474.9
37.5°	425.0	428.1	426.0	428.1	430.2	429.2	428.1	428.1
40°	382.5	383.5	381.4	383.5	384.6	384.6	384.6	382.5
42.5°	340.0	342.1	340.0	342.1	342.1	342.1	342.1	341.0
45°	297.5	299.6	299.6	300.6	300.6	299.6	299.6	299.6
47.5°	258.1	260.2	258.1	260.2	261.4	259.2	259.2	259.2
50°	221.0	219.9	219.9	221.0	221.0	221.0	221.0	219.9
52.5°	182.8	183.8	183.8	183.8	184.9	183.8	184.9	184.9
55°	149.8	149.8	149.8	150.9	149.8	149.8	150.9	151.9
57.5°	120.0	119.0	117.9	117.9	119.0	117.9	117.9	117.9
60°	92.4	91.4	90.2	90.2	90.2	90.2	90.2	89.2
62.5°	69.0	69.0	69.0	70.1	70.1	70.1	70.1	71.1
65°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	56.2
67.5°	44.6	44.6	44.6	45.6	45.6	45.6	45.6	45.6
70°	37.1	37.1	38.2	37.1	38.2	38.2	38.2	38.2
72.5°	25.5	25.5	25.5	25.5	25.5	24.4	25.5	24.4
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)