

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: P252349

Luminaire Tested: **LE_6B15D010 EC6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252349
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 EC6B10208027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1586.3 lumens
Efficiency: N/A
Efficacy: 110.2 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

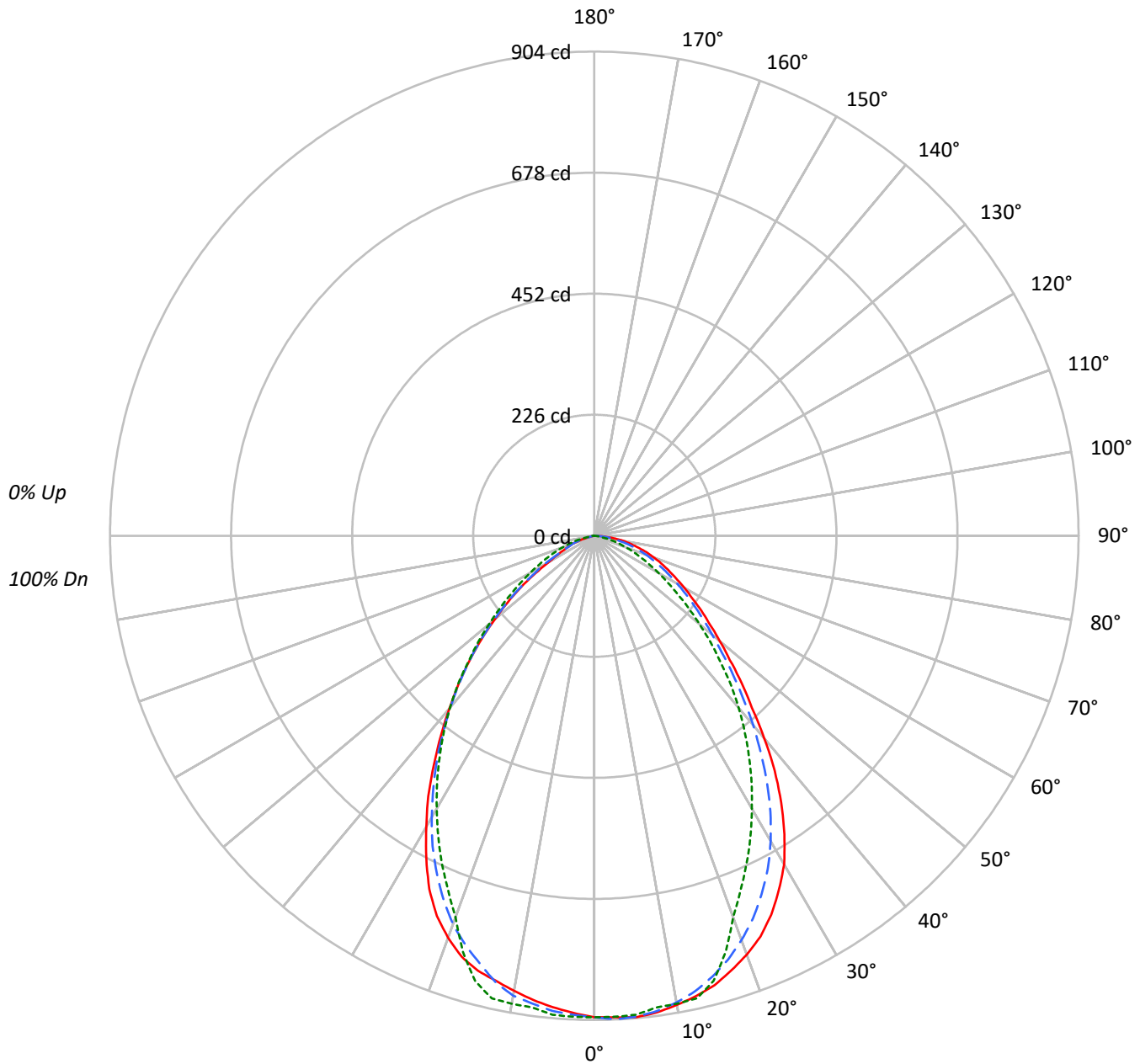
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B15D010 EC6B10208027 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°	58638	58638	58638
5°	59085	58784	57867
10°	58927	58768	57145
15°	58654	58100	56762
20°	57778	52591	55431
25°	56213	48482	52434
30°	53374	44311	47227
35°	48432	40069	41558
40°	42055	35684	35787
45°	35872	30687	30364
50°	31048	25942	24522
55°	27753	21634	18984
60°	25287	17980	12787
65°	23604	14789	9556
70°	22490	12017	8012
75°	21174	8545	2647
80°	20213	4358	902
85°	16543	2620	0



TEST NUMBER: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	5.4
10°-20°	237.4	15.0
20°-30°	327.7	20.7
30°-40°	333.4	21.0
40°-50°	268.0	16.9
50°-60°	178.2	11.2
60°-70°	101.5	6.4
70°-80°	45.6	2.9
80°-90°	9.6	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°	649.9	41.0
0°-40°	983.4	62.0
0°-60°	1429.5	90.1
0°-90°	1586.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	899	899	899	899	899	
5°	902	901	898	891	884	86
15°	868	852	860	826	840	244
25°	781	739	674	696	728	358
35°	608	562	503	512	522	378
45°	389	365	333	329	329	301
55°	244	228	190	169	167	219
65°	153	137	96	62	62	152
75°	84	70	34	14	10	90
85°	22	15	4	1	0	26
90°	0	0	0	0	0	



TEST NUMBER: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	900.0	904.6	903.5	902.2	903.5	902.2	900.0	900.0	897.6	897.6	903.5
5°	902.2	904.6	903.5	902.2	902.2	903.5	898.8	898.8	896.5	895.2	901.1
7.5°	897.6	901.1	898.8	898.8	897.6	898.8	894.1	894.1	890.6	889.5	895.2
10°	889.5	894.1	891.8	891.8	891.8	889.5	887.1	886.0	882.5	881.2	884.8
12.5°	880.1	883.6	882.5	880.1	880.1	880.1	875.5	874.2	869.6	867.2	870.8
15°	868.4	870.8	869.6	868.4	866.1	866.1	861.4	859.1	854.4	849.8	852.1
17.5°	850.9	854.4	852.1	850.9	847.4	847.4	842.8	840.4	833.4	828.8	829.9
20°	832.2	833.4	832.2	829.9	826.4	825.2	820.6	815.9	810.1	804.2	803.1
22.5°	810.1	811.2	807.8	805.4	801.9	800.8	794.9	791.4	782.0	775.0	773.9
25°	780.9	782.0	782.0	776.2	773.9	771.5	765.8	759.9	751.8	742.4	738.9
27.5°	745.9	749.4	747.0	741.2	736.5	735.4	729.5	724.9	714.4	706.1	701.5
30°	708.5	707.4	706.1	702.6	695.6	694.5	688.6	682.9	674.6	664.1	658.4
32.5°	660.6	660.6	659.5	656.0	649.0	646.6	642.0	635.0	625.6	617.5	611.6
35°	608.1	609.2	608.1	601.1	596.5	594.1	591.8	583.6	575.5	566.1	561.5
37.5°	553.2	549.8	551.0	545.1	539.2	541.6	534.6	531.1	521.8	514.8	510.1
40°	493.8	496.1	491.4	489.1	485.6	482.1	482.1	476.2	471.6	463.4	461.1
42.5°	435.4	438.9	437.8	435.4	430.8	431.9	426.0	423.8	417.9	414.4	410.9
45°	388.8	388.8	388.8	386.4	385.2	382.9	379.4	375.9	372.4	367.6	365.4
47.5°	343.1	343.1	344.4	342.0	339.6	338.5	336.1	336.1	330.4	325.6	323.4
50°	305.9	305.9	305.9	303.5	301.1	301.1	298.9	296.5	293.0	289.5	287.1
52.5°	272.0	272.0	272.0	269.6	268.5	267.2	266.1	265.0	260.2	258.0	255.6
55°	244.0	242.8	242.8	241.6	239.2	239.2	238.1	235.8	232.2	228.8	227.6
57.5°	216.0	217.1	216.0	216.0	213.6	213.6	211.2	210.1	206.6	204.2	201.9
60°	193.8	193.8	193.8	192.6	190.2	191.4	189.1	187.9	184.4	180.9	178.6
62.5°	171.6	172.8	172.8	171.6	169.2	169.2	168.1	166.9	163.4	159.9	156.4
65°	152.9	152.9	152.9	151.8	150.6	150.6	149.4	148.2	144.8	140.1	136.6
67.5°	135.4	134.2	134.2	134.2	133.1	131.9	130.8	129.6	126.1	122.5	117.9
70°	117.9	117.9	117.9	116.8	114.4	115.5	114.4	113.2	109.8	106.2	102.8
72.5°	101.5	101.5	100.4	99.2	99.2	98.0	98.0	96.9	93.4	88.8	85.2
75°	84.0	84.0	84.0	84.0	81.8	82.9	80.5	79.4	77.0	73.5	70.0
77.5°	68.9	68.9	68.9	67.8	66.5	66.5	65.4	64.2	60.8	58.4	53.8
80°	53.8	53.8	53.8	53.8	52.5	51.4	50.2	49.0	46.8	43.2	39.6
82.5°	39.6	39.6	38.5	38.5	38.5	37.4	36.1	35.0	32.6	30.4	28.0
85°	22.1	23.4	23.4	21.0	22.1	21.0	21.0	18.6	18.6	16.4	15.1
87.5°	8.1	7.0	7.0	7.0	7.0	7.0	7.0	5.9	5.9	5.9	4.6
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: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	898.8	897.6	902.2	902.2	895.2	898.8	900.0	897.6	897.6	898.8	895.2
5°	896.5	894.1	898.8	900.0	893.0	896.5	897.6	895.2	896.5	897.6	893.0
7.5°	888.2	888.2	891.8	893.0	886.0	889.5	889.5	887.1	888.2	888.2	884.8
10°	880.1	876.6	880.1	880.1	874.2	875.5	877.8	876.6	881.2	887.1	887.1
12.5°	864.9	861.4	867.2	867.2	863.8	868.4	874.2	877.8	882.5	884.8	877.8
15°	846.2	847.4	857.9	866.1	862.6	869.6	875.5	873.1	867.2	860.2	849.8
17.5°	821.8	818.2	827.6	832.2	827.6	829.9	834.6	829.9	820.6	814.8	800.8
20°	793.8	784.4	784.4	782.0	773.9	773.9	772.8	764.5	761.0	757.5	751.8
22.5°	762.2	751.8	748.2	741.2	734.2	733.0	729.5	721.4	716.8	714.4	707.4
25°	726.0	716.8	710.9	703.9	693.4	691.0	687.5	679.4	677.0	673.5	667.6
27.5°	688.6	677.0	668.9	661.9	652.5	651.4	644.4	638.5	633.9	631.5	626.9
30°	645.5	632.6	626.9	617.5	610.5	608.1	602.2	594.1	590.6	588.2	584.8
32.5°	597.6	587.1	581.2	573.1	563.8	565.0	558.0	551.0	548.6	546.2	542.8
35°	551.0	540.4	533.4	526.4	520.6	518.2	513.6	507.8	504.2	503.1	500.8
37.5°	499.6	491.4	485.6	478.6	473.9	471.6	469.2	463.4	461.1	461.1	456.4
40°	449.4	442.4	437.8	434.2	428.4	427.2	424.9	421.4	420.2	419.0	415.5
42.5°	403.9	394.5	391.0	388.8	385.2	382.9	381.8	379.4	378.2	377.0	373.5
45°	360.6	352.5	349.0	346.6	343.1	342.0	340.9	337.4	335.0	332.6	331.5
47.5°	318.6	312.9	311.6	305.9	303.5	301.1	298.9	296.5	295.4	294.1	289.5
50°	282.5	279.0	273.1	269.6	267.2	266.1	261.5	258.0	256.8	255.6	252.1
52.5°	249.8	245.1	241.6	235.8	234.6	232.2	230.0	225.2	223.0	221.8	218.2
55°	220.6	217.1	212.5	207.8	204.2	203.1	199.6	194.9	192.6	190.2	187.9
57.5°	196.1	190.2	185.6	180.9	178.6	175.1	171.6	169.2	165.8	162.2	158.8
60°	172.8	168.1	162.2	157.6	155.2	152.9	148.2	144.8	141.2	137.8	134.2
62.5°	150.6	145.9	140.1	135.4	133.1	130.8	126.1	122.5	119.0	115.5	110.9
65°	130.8	126.1	121.4	116.8	114.4	112.0	107.4	102.8	99.2	95.8	91.0
67.5°	114.4	108.5	103.9	99.2	96.9	94.5	89.9	86.4	81.8	78.2	73.5
70°	96.9	92.2	88.8	84.0	81.8	79.4	74.8	70.0	66.5	63.0	58.4
72.5°	81.8	75.9	72.4	67.8	65.4	64.2	59.5	56.0	52.5	47.9	44.4
75°	65.4	60.8	56.0	52.5	50.2	49.0	44.4	40.9	37.4	33.9	30.4
77.5°	50.2	46.8	42.0	38.5	36.1	35.0	30.4	26.9	23.4	21.0	17.5
80°	37.4	32.6	30.4	26.9	25.6	23.4	21.0	17.5	15.1	11.6	9.4
82.5°	25.6	22.1	19.9	17.5	16.4	15.1	12.9	10.5	8.1	7.0	5.9
85°	14.0	11.6	10.5	9.4	8.1	8.1	7.0	5.9	4.6	3.5	2.4
87.5°	4.6	3.5	3.5	3.5	3.5	2.4	2.4	2.4	1.1	1.1	1.1
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: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	897.6	897.6	897.6	896.5	896.5	896.5	895.2	900.0	895.2	894.1	897.6
5°	896.5	894.1	894.1	894.1	894.1	893.0	891.8	894.1	890.6	889.5	889.5
7.5°	889.5	888.2	888.2	887.1	886.0	884.8	883.6	884.8	881.2	880.1	880.1
10°	890.6	888.2	888.2	884.8	882.5	879.0	875.5	876.6	871.9	868.4	868.4
12.5°	876.6	870.8	867.2	863.8	861.4	860.2	855.6	857.9	853.2	852.1	852.1
15°	845.1	838.1	832.2	829.9	829.9	827.6	824.1	828.8	826.4	827.6	833.4
17.5°	796.1	792.6	789.0	787.9	789.0	791.4	793.8	800.8	800.8	804.2	810.1
20°	752.9	750.5	752.9	752.9	754.0	758.8	763.4	769.2	771.5	775.0	783.2
22.5°	710.9	710.9	713.2	716.8	715.5	723.8	724.9	735.4	735.4	742.4	749.4
25°	670.0	670.0	672.4	673.5	675.9	680.5	685.1	693.4	695.6	702.6	708.5
27.5°	630.4	629.1	629.1	630.4	632.6	638.5	640.9	650.1	653.6	658.4	664.1
30°	586.0	584.8	587.1	589.5	588.2	594.1	597.6	604.6	607.0	611.6	616.2
32.5°	544.0	544.0	544.0	546.2	546.2	551.0	551.0	559.1	559.1	562.6	567.2
35°	500.8	500.8	501.9	503.1	504.2	505.4	506.6	511.2	512.4	513.6	515.9
37.5°	459.9	458.8	459.9	459.9	457.5	462.2	462.2	466.9	463.4	466.9	468.1
40°	417.9	417.9	416.8	416.8	416.8	419.0	416.8	420.2	417.9	420.2	419.0
42.5°	374.6	374.6	372.4	374.6	373.5	373.5	373.5	375.9	372.4	374.6	375.9
45°	331.5	330.4	330.4	329.1	329.1	329.1	330.4	330.4	329.1	331.5	331.5
47.5°	289.5	288.2	288.2	288.2	288.2	289.5	286.0	288.2	286.0	286.0	286.0
50°	253.2	252.1	251.0	249.8	248.6	248.6	247.5	247.5	245.1	244.0	242.8
52.5°	218.2	217.1	214.8	214.8	213.6	212.5	209.0	209.0	205.4	204.2	204.2
55°	186.8	183.2	182.1	179.8	179.8	177.4	175.1	172.8	169.2	166.9	166.9
57.5°	157.6	154.1	151.8	150.6	149.4	147.1	142.4	141.2	136.6	135.4	134.2
60°	131.9	128.4	124.9	122.5	121.4	117.9	113.2	110.9	108.5	105.0	101.5
62.5°	107.4	103.9	99.2	98.0	95.8	92.2	88.8	85.2	82.9	79.4	77.0
65°	86.4	82.9	79.4	77.0	74.8	71.2	67.8	64.2	61.9	60.8	59.5
67.5°	70.0	65.4	61.9	60.8	58.4	56.0	52.5	51.4	49.0	49.0	49.0
70°	54.9	51.4	47.9	46.8	45.5	43.2	40.9	40.9	40.9	40.9	40.9
72.5°	40.9	38.5	35.0	33.9	32.6	31.5	29.1	30.4	29.1	29.1	29.1
75°	25.6	23.4	21.0	19.9	18.6	17.5	16.4	15.1	14.0	12.9	12.9
77.5°	14.0	11.6	10.5	9.4	9.4	8.1	7.0	7.0	5.9	5.9	5.9
80°	8.1	7.0	5.9	4.6	4.6	3.5	3.5	3.5	3.5	2.4	2.4
82.5°	4.6	3.5	2.4	2.4	2.4	2.4	1.1	1.1	1.1	1.1	1.1
85°	2.4	2.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P252349

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	891.8	895.2	891.8	895.2	895.2	895.2	895.2	891.8
5°	886.0	888.2	884.8	887.1	888.2	887.1	887.1	883.6
7.5°	875.5	877.8	874.2	877.8	879.0	877.8	876.6	874.2
10°	864.9	866.1	862.6	864.9	867.2	867.2	866.1	862.6
12.5°	848.6	852.1	848.6	850.9	853.2	854.4	854.4	850.9
15°	829.9	835.8	833.4	836.9	840.4	841.6	841.6	840.4
17.5°	811.2	817.1	813.6	819.4	822.9	825.2	826.4	824.1
20°	784.4	791.4	789.0	793.8	798.4	801.9	801.9	798.4
22.5°	749.4	758.8	757.5	761.0	766.9	768.0	770.4	768.0
25°	710.9	717.9	716.8	720.2	727.2	727.2	728.4	728.4
27.5°	666.5	673.5	672.4	674.6	679.4	680.5	681.6	679.4
30°	618.6	622.1	622.1	625.6	629.1	630.4	630.4	626.9
32.5°	566.1	570.8	573.1	572.0	575.5	577.8	576.6	576.6
35°	518.2	519.4	520.6	521.8	522.9	525.2	522.9	521.8
37.5°	466.9	470.4	468.1	470.4	472.8	471.6	470.4	470.4
40°	420.2	421.4	419.0	421.4	422.5	422.5	422.5	420.2
42.5°	373.5	375.9	373.5	375.9	375.9	375.9	375.9	374.6
45°	326.9	329.1	329.1	330.4	330.4	329.1	329.1	329.1
47.5°	283.6	286.0	283.6	286.0	287.1	284.8	284.8	284.8
50°	242.8	241.6	241.6	242.8	242.8	242.8	242.8	241.6
52.5°	200.8	201.9	201.9	201.9	203.1	201.9	203.1	203.1
55°	164.6	164.6	164.6	165.8	164.6	164.6	165.8	166.9
57.5°	131.9	130.8	129.6	129.6	130.8	129.6	129.6	129.6
60°	101.5	100.4	99.2	99.2	99.2	99.2	99.2	98.0
62.5°	75.9	75.9	75.9	77.0	77.0	77.0	77.0	78.2
65°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	61.9
67.5°	49.0	49.0	49.0	50.2	50.2	50.2	50.2	50.2
70°	40.9	40.9	42.0	40.9	42.0	42.0	42.0	42.0
72.5°	28.0	28.0	28.0	28.0	28.0	26.9	28.0	26.9
75°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	10.5
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	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)