

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: P252367

Luminaire Tested: **LE_6B20D010 EC6B10209024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252367
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_6B20D010 EC6B10209024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

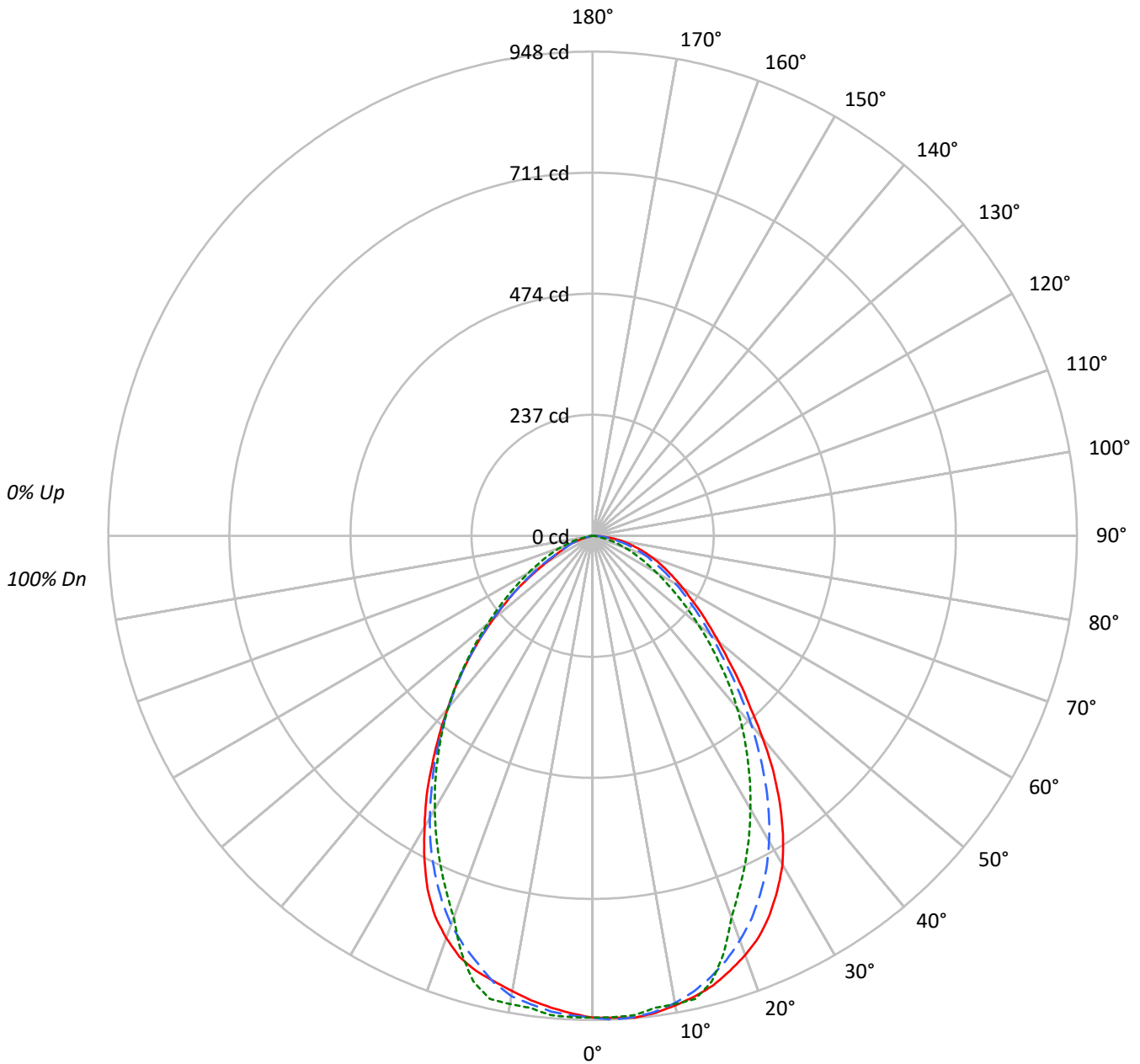
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61548	61548	61548
5°	62025	61698	60742
10°	61848	61683	59980
15°	61565	60990	59579
20°	60652	55202	58180
25°	58999	50893	55033
30°	56033	46518	49562
35°	50845	42052	43613
40°	44133	37464	37567
45°	37644	32209	31877
50°	32580	27242	25739
55°	29130	22726	19928
60°	26540	18868	13427
65°	24777	15514	10019
70°	23615	12609	8412
75°	22233	8949	2773
80°	21190	4584	939
85°	17366	2695	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	5.4
10°-20°	249.2	15.0
20°-30°	343.9	20.7
30°-40°	350.0	21.0
40°-50°	281.3	16.9
50°-60°	187.0	11.2
60°-70°	106.6	6.4
70°-80°	47.9	2.9
80°-90°	10.1	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°	682.2	41.0
0°-40°	1032.2	62.0
0°-60°	1500.5	90.1
0°-90°	1665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	943	943	943	943	943	
5°	947	946	942	935	928	90
15°	912	894	903	868	882	257
25°	820	776	707	730	764	376
35°	638	589	528	538	548	397
45°	408	384	349	346	346	316
55°	256	239	200	178	175	230
65°	160	143	100	65	65	160
75°	88	74	36	15	11	94
85°	23	16	4	1	0	28
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°	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4
2.5°	944.6	949.5	948.2	947.1	948.2	947.1	944.6	944.6	942.1	942.1	948.2
5°	947.1	949.5	948.2	947.1	947.1	948.2	943.4	943.4	941.0	939.8	945.9
7.5°	942.1	945.9	943.4	943.4	942.1	943.4	938.5	938.5	934.9	933.6	939.8
10°	933.6	938.5	936.0	936.0	936.0	933.6	931.1	929.9	926.2	925.0	928.8
12.5°	923.8	927.5	926.2	923.8	923.8	923.8	918.9	917.6	912.8	910.4	914.0
15°	911.5	914.0	912.8	911.5	909.1	909.1	904.2	901.8	896.9	892.0	894.4
17.5°	893.1	896.9	894.4	893.1	889.5	889.5	884.6	882.1	874.8	869.9	871.1
20°	873.6	874.8	873.6	871.1	867.5	866.2	861.4	856.4	850.2	844.1	842.9
22.5°	850.2	851.5	847.9	845.4	841.8	840.5	834.4	830.6	820.9	813.5	812.2
25°	819.6	820.9	820.9	814.8	812.2	809.9	803.8	797.6	789.0	779.2	775.5
27.5°	782.9	786.6	784.1	778.0	773.1	771.9	765.8	760.9	749.9	741.2	736.4
30°	743.8	742.5	741.2	737.6	730.2	729.0	722.9	716.8	708.1	697.1	691.0
32.5°	693.5	693.5	692.2	688.5	681.2	678.8	673.9	666.5	656.8	648.1	642.0
35°	638.4	639.5	638.4	631.0	626.1	623.6	621.1	612.6	604.0	594.2	589.4
37.5°	580.8	577.1	578.2	572.1	566.0	568.5	561.1	557.5	547.6	540.4	535.4
40°	518.2	520.8	515.8	513.4	509.6	506.0	506.0	499.9	495.0	486.4	484.0
42.5°	457.0	460.6	459.5	457.0	452.1	453.4	447.2	444.8	438.6	435.0	431.2
45°	408.0	408.0	408.0	405.5	404.4	401.9	398.2	394.5	390.9	386.0	383.5
47.5°	360.2	360.2	361.4	359.0	356.5	355.2	352.9	352.9	346.8	341.9	339.4
50°	321.0	321.0	321.0	318.5	316.1	316.1	313.6	311.2	307.5	303.9	301.4
52.5°	285.5	285.5	285.5	283.0	281.8	280.6	279.4	278.1	273.2	270.8	268.4
55°	256.1	254.9	254.9	253.6	251.1	251.1	250.0	247.5	243.9	240.1	238.9
57.5°	226.6	227.9	226.6	226.6	224.2	224.2	221.8	220.5	216.9	214.4	212.0
60°	203.4	203.4	203.4	202.1	199.8	200.9	198.5	197.2	193.6	189.9	187.5
62.5°	180.1	181.4	181.4	180.1	177.6	177.6	176.4	175.2	171.5	167.9	164.1
65°	160.5	160.5	160.5	159.2	158.0	158.0	156.9	155.6	151.9	147.0	143.4
67.5°	142.1	140.9	140.9	140.9	139.6	138.5	137.2	136.0	132.4	128.6	123.8
70°	123.8	123.8	123.8	122.5	120.1	121.2	120.1	118.9	115.1	111.5	107.9
72.5°	106.6	106.6	105.4	104.1	104.1	102.9	102.9	101.8	98.0	93.1	89.5
75°	88.2	88.2	88.2	88.2	85.8	87.0	84.5	83.4	80.9	77.2	73.5
77.5°	72.2	72.2	72.2	71.0	69.9	69.9	68.6	67.4	63.8	61.2	56.4
80°	56.4	56.4	56.4	56.4	55.1	53.9	52.6	51.5	49.0	45.4	41.6
82.5°	41.6	41.6	40.4	40.4	40.4	39.2	38.0	36.8	34.2	31.9	29.4
85°	23.2	24.5	24.5	22.0	23.2	22.0	22.0	19.6	19.6	17.1	15.9
87.5°	8.6	7.4	7.4	7.4	7.4	7.4	7.4	6.1	6.1	6.1	4.9
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°	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4
2.5°	943.4	942.1	947.1	947.1	939.8	943.4	944.6	942.1	942.1	943.4	939.8
5°	941.0	938.5	943.4	944.6	937.2	941.0	942.1	939.8	941.0	942.1	937.2
7.5°	932.4	932.4	936.0	937.2	929.9	933.6	933.6	931.1	932.4	932.4	928.8
10°	923.8	920.1	923.8	923.8	917.6	918.9	921.4	920.1	925.0	931.1	931.1
12.5°	907.9	904.2	910.4	910.4	906.6	911.5	917.6	921.4	926.2	928.8	921.4
15°	888.2	889.5	900.5	909.1	905.4	912.8	918.9	916.5	910.4	903.0	892.0
17.5°	862.5	858.9	868.6	873.6	868.6	871.1	876.0	871.1	861.4	855.2	840.5
20°	833.1	823.4	823.4	820.9	812.2	812.2	811.1	802.5	798.9	795.1	789.0
22.5°	800.0	789.0	785.4	778.0	770.6	769.4	765.8	757.1	752.2	749.9	742.5
25°	762.1	752.2	746.1	738.8	727.8	725.4	721.6	713.1	710.6	707.0	700.9
27.5°	722.9	710.6	702.0	694.8	684.9	683.6	676.2	670.1	665.2	662.9	657.9
30°	677.5	664.0	657.9	648.1	640.8	638.4	632.2	623.6	620.0	617.5	613.9
32.5°	627.2	616.2	610.1	601.6	591.8	593.0	585.6	578.2	575.9	573.4	569.8
35°	578.2	567.2	559.9	552.6	546.5	544.0	539.1	533.0	529.2	528.0	525.6
37.5°	524.4	515.8	509.6	502.4	497.4	495.0	492.5	486.4	484.0	484.0	479.0
40°	471.8	464.4	459.5	455.8	449.6	448.4	446.0	442.2	441.1	439.9	436.1
42.5°	423.9	414.1	410.5	408.0	404.4	401.9	400.6	398.2	397.0	395.8	392.1
45°	378.6	370.0	366.4	363.9	360.2	359.0	357.8	354.1	351.6	349.1	348.0
47.5°	334.5	328.4	327.1	321.0	318.5	316.1	313.6	311.2	310.0	308.8	303.9
50°	296.5	292.9	286.8	283.0	280.6	279.4	274.5	270.8	269.5	268.4	264.6
52.5°	262.2	257.2	253.6	247.5	246.2	243.9	241.4	236.5	234.0	232.8	229.1
55°	231.6	227.9	223.0	218.1	214.4	213.1	209.5	204.6	202.1	199.8	197.2
57.5°	205.9	199.8	194.8	189.9	187.5	183.8	180.1	177.6	174.0	170.2	166.6
60°	181.4	176.4	170.2	165.4	163.0	160.5	155.6	151.9	148.2	144.6	140.9
62.5°	158.0	153.1	147.0	142.1	139.6	137.2	132.4	128.6	125.0	121.2	116.4
65°	137.2	132.4	127.4	122.5	120.1	117.6	112.8	107.9	104.1	100.5	95.6
67.5°	120.1	114.0	109.0	104.1	101.8	99.2	94.4	90.6	85.8	82.1	77.2
70°	101.8	96.8	93.1	88.2	85.8	83.4	78.4	73.5	69.9	66.1	61.2
72.5°	85.8	79.6	76.0	71.0	68.6	67.4	62.5	58.8	55.1	50.2	46.5
75°	68.6	63.8	58.8	55.1	52.6	51.5	46.5	42.9	39.2	35.5	31.9
77.5°	52.6	49.0	44.1	40.4	38.0	36.8	31.9	28.1	24.5	22.0	18.4
80°	39.2	34.2	31.9	28.1	27.0	24.5	22.0	18.4	15.9	12.2	9.8
82.5°	27.0	23.2	20.9	18.4	17.1	15.9	13.5	11.0	8.6	7.4	6.1
85°	14.8	12.2	11.0	9.8	8.6	8.6	7.4	6.1	4.9	3.6	2.5
87.5°	4.9	3.6	3.6	3.6	3.6	2.5	2.5	2.5	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4
2.5°	942.1	942.1	942.1	941.0	941.0	941.0	939.8	944.6	939.8	938.5	942.1
5°	941.0	938.5	938.5	938.5	938.5	937.2	936.0	938.5	934.9	933.6	933.6
7.5°	933.6	932.4	932.4	931.1	929.9	928.8	927.5	928.8	925.0	923.8	923.8
10°	934.9	932.4	932.4	928.8	926.2	922.6	918.9	920.1	915.2	911.5	911.5
12.5°	920.1	914.0	910.4	906.6	904.2	903.0	898.1	900.5	895.6	894.4	894.4
15°	887.0	879.8	873.6	871.1	871.1	868.6	865.0	869.9	867.5	868.6	874.8
17.5°	835.6	831.9	828.2	827.0	828.2	830.6	833.1	840.5	840.5	844.1	850.2
20°	790.2	787.8	790.2	790.2	791.5	796.4	801.2	807.4	809.9	813.5	822.1
22.5°	746.1	746.1	748.6	752.2	751.0	759.6	760.9	771.9	771.9	779.2	786.6
25°	703.2	703.2	705.8	707.0	709.4	714.2	719.2	727.8	730.2	737.6	743.8
27.5°	661.6	660.4	660.4	661.6	664.0	670.1	672.6	682.4	686.1	691.0	697.1
30°	615.0	613.9	616.2	618.8	617.5	623.6	627.2	634.6	637.1	642.0	646.9
32.5°	571.0	571.0	571.0	573.4	573.4	578.2	578.2	586.9	586.9	590.5	595.5
35°	525.6	525.6	526.9	528.0	529.2	530.5	531.8	536.6	537.9	539.1	541.5
37.5°	482.8	481.5	482.8	482.8	480.2	485.1	485.1	490.1	486.4	490.1	491.2
40°	438.6	438.6	437.4	437.4	437.4	439.9	437.4	441.1	438.6	441.1	439.9
42.5°	393.2	393.2	390.9	393.2	392.1	392.1	392.1	394.5	390.9	393.2	394.5
45°	348.0	346.8	346.8	345.5	345.5	345.5	346.8	346.8	345.5	348.0	348.0
47.5°	303.9	302.6	302.6	302.6	302.6	303.9	300.1	302.6	300.1	300.1	300.1
50°	265.9	264.6	263.4	262.2	261.0	261.0	259.8	259.8	257.2	256.1	254.9
52.5°	229.1	227.9	225.4	225.4	224.2	223.0	219.2	219.2	215.6	214.4	214.4
55°	196.0	192.4	191.1	188.6	188.6	186.2	183.8	181.4	177.6	175.2	175.2
57.5°	165.4	161.8	159.2	158.0	156.9	154.4	149.5	148.2	143.4	142.1	140.9
60°	138.5	134.8	131.1	128.6	127.4	123.8	118.9	116.4	114.0	110.2	106.6
62.5°	112.8	109.0	104.1	102.9	100.5	96.8	93.1	89.5	87.0	83.4	80.9
65°	90.6	87.0	83.4	80.9	78.4	74.8	71.0	67.4	64.9	63.8	62.5
67.5°	73.5	68.6	64.9	63.8	61.2	58.8	55.1	53.9	51.5	51.5	51.5
70°	57.6	53.9	50.2	49.0	47.8	45.4	42.9	42.9	42.9	42.9	42.9
72.5°	42.9	40.4	36.8	35.5	34.2	33.1	30.6	31.9	30.6	30.6	30.6
75°	27.0	24.5	22.0	20.9	19.6	18.4	17.1	15.9	14.8	13.5	13.5
77.5°	14.8	12.2	11.0	9.8	9.8	8.6	7.4	7.4	6.1	6.1	6.1
80°	8.6	7.4	6.1	4.9	4.9	3.6	3.6	3.6	3.6	2.5	2.5
82.5°	4.9	3.6	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
85°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	943.4	943.4	943.4	943.4	943.4	943.4	943.4	943.4
2.5°	936.0	939.8	936.0	939.8	939.8	939.8	939.8	936.0
5°	929.9	932.4	928.8	931.1	932.4	931.1	931.1	927.5
7.5°	918.9	921.4	917.6	921.4	922.6	921.4	920.1	917.6
10°	907.9	909.1	905.4	907.9	910.4	910.4	909.1	905.4
12.5°	890.8	894.4	890.8	893.1	895.6	896.9	896.9	893.1
15°	871.1	877.2	874.8	878.5	882.1	883.4	883.4	882.1
17.5°	851.5	857.6	854.0	860.1	863.8	866.2	867.5	865.0
20°	823.4	830.6	828.2	833.1	838.0	841.8	841.8	838.0
22.5°	786.6	796.4	795.1	798.9	805.0	806.1	808.6	806.1
25°	746.1	753.5	752.2	756.0	763.2	763.2	764.5	764.5
27.5°	699.6	707.0	705.8	708.1	713.1	714.2	715.5	713.1
30°	649.4	653.0	653.0	656.8	660.4	661.6	661.6	657.9
32.5°	594.2	599.1	601.6	600.4	604.0	606.5	605.2	605.2
35°	544.0	545.2	546.5	547.6	548.9	551.4	548.9	547.6
37.5°	490.1	493.8	491.2	493.8	496.2	495.0	493.8	493.8
40°	441.1	442.2	439.9	442.2	443.5	443.5	443.5	441.1
42.5°	392.1	394.5	392.1	394.5	394.5	394.5	394.5	393.2
45°	343.0	345.5	345.5	346.8	346.8	345.5	345.5	345.5
47.5°	297.8	300.1	297.8	300.1	301.4	299.0	299.0	299.0
50°	254.9	253.6	253.6	254.9	254.9	254.9	254.9	253.6
52.5°	210.8	212.0	212.0	212.0	213.1	212.0	213.1	213.1
55°	172.8	172.8	172.8	174.0	172.8	172.8	174.0	175.2
57.5°	138.5	137.2	136.0	136.0	137.2	136.0	136.0	136.0
60°	106.6	105.4	104.1	104.1	104.1	104.1	104.1	102.9
62.5°	79.6	79.6	79.6	80.9	80.9	80.9	80.9	82.1
65°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	64.9
67.5°	51.5	51.5	51.5	52.6	52.6	52.6	52.6	52.6
70°	42.9	42.9	44.1	42.9	44.1	44.1	44.1	44.1
72.5°	29.4	29.4	29.4	29.4	29.4	28.1	29.4	28.1
75°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	11.0
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)