

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: io LED

Report Number: P252362

Luminaire Tested: **LD6B20D010 EU6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252362
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: io LED
Catalog Number: LD6B20D010 EU6B10208027 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: 1763.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

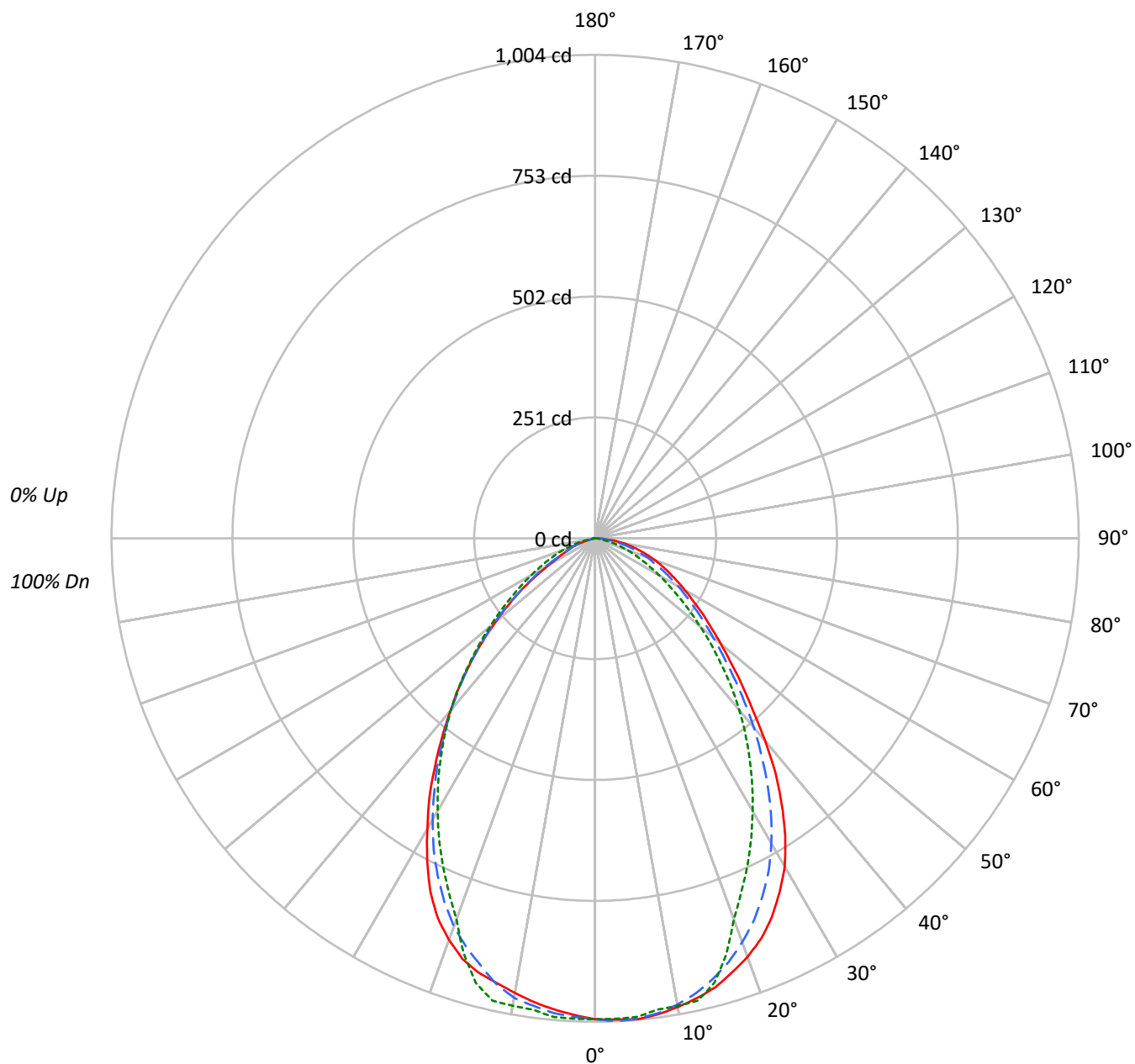
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65169	65169	65169
5°	65673	65333	64318
10°	65492	65320	63511
15°	65192	64577	63091
20°	64221	58458	61610
25°	62476	53881	58272
30°	59325	49253	52485
35°	53831	44529	46186
40°	46739	39662	39772
45°	39858	34110	33750
50°	34499	28835	27252
55°	30836	24057	21099
60°	28106	19977	14222
65°	26228	16425	10621
70°	24988	13372	8908
75°	23543	9478	2949
80°	22430	4884	977
85°	18414	2919	0



TEST NUMBER: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	5.4
10°-20°	263.8	15.0
20°-30°	364.2	20.7
30°-40°	370.6	21.0
40°-50°	297.8	16.9
50°-60°	198.0	11.2
60°-70°	112.9	6.4
70°-80°	50.7	2.9
80°-90°	10.7	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°	722.3	41.0
0°-40°	1092.9	62.0
0°-60°	1588.8	90.1
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	1003	1002	998	990	982	95
15°	965	947	956	918	934	272
25°	868	821	748	773	810	398
35°	676	624	559	570	580	420
45°	432	406	370	366	366	335
55°	271	253	212	188	186	244
65°	170	152	106	69	69	169
75°	93	78	38	16	12	100
85°	25	17	4	1	0	29
90°	0	0	0	0	0	



TEST NUMBER: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	1000.2	1005.4	1004.1	1002.8	1004.1	1002.8	1000.2	1000.2	997.6	997.6	1004.1
5°	1002.8	1005.4	1004.1	1002.8	1002.8	1004.1	998.9	998.9	996.3	995.0	1001.5
7.5°	997.6	1001.5	998.9	998.9	997.6	998.9	993.7	993.7	989.8	988.6	995.0
10°	988.6	993.7	991.1	991.1	991.1	988.6	986.0	984.7	980.8	979.5	983.4
12.5°	978.2	982.1	980.8	978.2	978.2	978.2	973.0	971.7	966.5	963.9	967.8
15°	965.2	967.8	966.5	965.2	962.6	962.6	957.4	954.8	949.6	944.4	947.0
17.5°	945.7	949.6	947.0	945.7	941.8	941.8	936.7	934.1	926.3	921.1	922.4
20°	925.0	926.3	925.0	922.4	918.5	917.2	912.0	906.8	900.3	893.8	892.6
22.5°	900.3	901.6	897.7	895.1	891.3	890.0	883.5	879.6	869.2	861.4	860.1
25°	867.9	869.2	869.2	862.7	860.1	857.5	851.0	844.6	835.5	825.1	821.2
27.5°	829.0	832.9	830.3	823.8	818.6	817.3	810.8	805.6	794.0	784.9	779.7
30°	787.5	786.2	784.9	781.0	773.2	771.9	765.4	758.9	749.8	738.2	731.7
32.5°	734.3	734.3	733.0	729.1	721.3	718.7	713.5	705.7	695.4	686.3	679.8
35°	675.9	677.2	675.9	668.1	662.9	660.3	657.7	648.7	639.6	629.2	624.0
37.5°	614.9	611.0	612.3	605.8	599.4	602.0	594.2	590.3	579.9	572.1	566.9
40°	548.8	551.4	546.2	543.6	539.7	535.8	535.8	529.3	524.1	515.0	512.4
42.5°	483.9	487.8	486.5	483.9	478.7	480.0	473.5	470.9	464.4	460.5	456.7
45°	432.0	432.0	432.0	429.4	428.1	425.5	421.6	417.7	413.8	408.7	406.1
47.5°	381.4	381.4	382.7	380.1	377.5	376.2	373.6	373.6	367.1	362.0	359.4
50°	339.9	339.9	339.9	337.3	334.7	334.7	332.1	329.5	325.6	321.7	319.1
52.5°	302.3	302.3	302.3	299.7	298.4	297.1	295.8	294.5	289.3	286.7	284.1
55°	271.1	269.8	269.8	268.5	265.9	265.9	264.7	262.1	258.2	254.3	253.0
57.5°	240.0	241.3	240.0	240.0	237.4	237.4	234.8	233.5	229.6	227.0	224.4
60°	215.4	215.4	215.4	214.1	211.5	212.8	210.2	208.9	205.0	201.1	198.5
62.5°	190.7	192.0	192.0	190.7	188.1	188.1	186.8	185.5	181.6	177.7	173.8
65°	169.9	169.9	169.9	168.7	167.4	167.4	166.1	164.8	160.9	155.7	151.8
67.5°	150.5	149.2	149.2	149.2	147.9	146.6	145.3	144.0	140.1	136.2	131.0
70°	131.0	131.0	131.0	129.7	127.1	128.4	127.1	125.8	121.9	118.1	114.2
72.5°	112.9	112.9	111.6	110.3	110.3	109.0	109.0	107.7	103.8	98.6	94.7
75°	93.4	93.4	93.4	93.4	90.8	92.1	89.5	88.2	85.6	81.7	77.8
77.5°	76.5	76.5	76.5	75.2	73.9	73.9	72.6	71.4	67.5	64.9	59.7
80°	59.7	59.7	59.7	59.7	58.4	57.1	55.8	54.5	51.9	48.0	44.1
82.5°	44.1	44.1	42.8	42.8	42.8	41.5	40.2	38.9	36.3	33.7	31.1
85°	24.6	25.9	25.9	23.4	24.6	23.4	23.4	20.8	20.8	18.2	16.9
87.5°	9.1	7.8	7.8	7.8	7.8	7.8	7.8	6.5	6.5	6.5	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



TEST NUMBER: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	998.9	997.6	1002.8	1002.8	995.0	998.9	1000.2	997.6	997.6	998.9	995.0
5°	996.3	993.7	998.9	1000.2	992.4	996.3	997.6	995.0	996.3	997.6	992.4
7.5°	987.3	987.3	991.1	992.4	984.7	988.6	988.6	986.0	987.3	987.3	983.4
10°	978.2	974.3	978.2	978.2	971.7	973.0	975.6	974.3	979.5	986.0	986.0
12.5°	961.3	957.4	963.9	963.9	960.0	965.2	971.7	975.6	980.8	983.4	975.6
15°	940.6	941.8	953.5	962.6	958.7	966.5	973.0	970.4	963.9	956.1	944.4
17.5°	913.3	909.4	919.8	925.0	919.8	922.4	927.6	922.4	912.0	905.5	890.0
20°	882.2	871.8	871.8	869.2	860.1	860.1	858.8	849.7	845.8	842.0	835.5
22.5°	847.1	835.5	831.6	823.8	816.0	814.7	810.8	801.7	796.5	794.0	786.2
25°	806.9	796.5	790.1	782.3	770.6	768.0	764.1	755.0	752.4	748.5	742.1
27.5°	765.4	752.4	743.4	735.6	725.2	723.9	716.1	709.6	704.4	701.8	696.7
30°	717.4	703.1	696.7	686.3	678.5	675.9	669.4	660.3	656.4	653.8	650.0
32.5°	664.2	652.5	646.1	637.0	626.6	627.9	620.1	612.3	609.7	607.1	603.3
35°	612.3	600.7	592.9	585.1	578.6	576.0	570.8	564.3	560.4	559.1	556.5
37.5°	555.2	546.2	539.7	531.9	526.7	524.1	521.5	515.0	512.4	512.4	507.2
40°	499.5	491.7	486.5	482.6	476.1	474.8	472.2	468.3	467.0	465.7	461.8
42.5°	448.9	438.5	434.6	432.0	428.1	425.5	424.2	421.6	420.3	419.0	415.1
45°	400.9	391.8	387.9	385.3	381.4	380.1	378.8	374.9	372.3	369.7	368.4
47.5°	354.2	347.7	346.4	339.9	337.3	334.7	332.1	329.5	328.2	326.9	321.7
50°	313.9	310.1	303.6	299.7	297.1	295.8	290.6	286.7	285.4	284.1	280.2
52.5°	277.6	272.4	268.5	262.1	260.8	258.2	255.6	250.4	247.8	246.5	242.6
55°	245.2	241.3	236.1	230.9	227.0	225.7	221.8	216.7	214.1	211.5	208.9
57.5°	217.9	211.5	206.3	201.1	198.5	194.6	190.7	188.1	184.2	180.3	176.4
60°	192.0	186.8	180.3	175.1	172.5	169.9	164.8	160.9	157.0	153.1	149.2
62.5°	167.4	162.2	155.7	150.5	147.9	145.3	140.1	136.2	132.3	128.4	123.2
65°	145.3	140.1	134.9	129.7	127.1	124.5	119.4	114.2	110.3	106.4	101.2
67.5°	127.1	120.7	115.5	110.3	107.7	105.1	99.9	96.0	90.8	86.9	81.7
70°	107.7	102.5	98.6	93.4	90.8	88.2	83.0	77.8	73.9	70.1	64.9
72.5°	90.8	84.3	80.4	75.2	72.6	71.4	66.2	62.3	58.4	53.2	49.3
75°	72.6	67.5	62.3	58.4	55.8	54.5	49.3	45.4	41.5	37.6	33.7
77.5°	55.8	51.9	46.7	42.8	40.2	38.9	33.7	29.8	25.9	23.4	19.5
80°	41.5	36.3	33.7	29.8	28.5	25.9	23.4	19.5	16.9	13.0	10.4
82.5°	28.5	24.6	22.1	19.5	18.2	16.9	14.3	11.7	9.1	7.8	6.5
85°	15.6	13.0	11.7	10.4	9.1	9.1	7.8	6.5	5.2	3.9	2.6
87.5°	5.2	3.9	3.9	3.9	3.9	2.6	2.6	2.6	1.3	1.3	1.3
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: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	997.6	997.6	997.6	996.3	996.3	996.3	995.0	1000.2	995.0	993.7	997.6
5°	996.3	993.7	993.7	993.7	993.7	992.4	991.1	993.7	989.8	988.6	988.6
7.5°	988.6	987.3	987.3	986.0	984.7	983.4	982.1	983.4	979.5	978.2	978.2
10°	989.8	987.3	987.3	983.4	980.8	976.9	973.0	974.3	969.1	965.2	965.2
12.5°	974.3	967.8	963.9	960.0	957.4	956.1	950.9	953.5	948.3	947.0	947.0
15°	939.3	931.5	925.0	922.4	922.4	919.8	915.9	921.1	918.5	919.8	926.3
17.5°	884.8	880.9	877.0	875.7	877.0	879.6	882.2	890.0	890.0	893.8	900.3
20°	836.8	834.2	836.8	836.8	838.1	843.3	848.4	854.9	857.5	861.4	870.5
22.5°	790.1	790.1	792.7	796.5	795.3	804.3	805.6	817.3	817.3	825.1	832.9
25°	744.7	744.7	747.3	748.5	751.1	756.3	761.5	770.6	773.2	781.0	787.5
27.5°	700.5	699.3	699.3	700.5	703.1	709.6	712.2	722.6	726.5	731.7	738.2
30°	651.3	650.0	652.5	655.1	653.8	660.3	664.2	672.0	674.6	679.8	685.0
32.5°	604.5	604.5	604.5	607.1	607.1	612.3	612.3	621.4	621.4	625.3	630.5
35°	556.5	556.5	557.8	559.1	560.4	561.7	563.0	568.2	569.5	570.8	573.4
37.5°	511.1	509.8	511.1	511.1	508.5	513.7	513.7	518.9	515.0	518.9	520.2
40°	464.4	464.4	463.1	463.1	463.1	465.7	463.1	467.0	464.4	467.0	465.7
42.5°	416.4	416.4	413.8	416.4	415.1	415.1	415.1	417.7	413.8	416.4	417.7
45°	368.4	367.1	367.1	365.8	365.8	365.8	367.1	367.1	365.8	368.4	368.4
47.5°	321.7	320.4	320.4	320.4	320.4	321.7	317.8	320.4	317.8	317.8	317.8
50°	281.5	280.2	278.9	277.6	276.3	276.3	275.0	275.0	272.4	271.1	269.8
52.5°	242.6	241.3	238.7	238.7	237.4	236.1	232.2	232.2	228.3	227.0	227.0
55°	207.6	203.7	202.4	199.8	199.8	197.2	194.6	192.0	188.1	185.5	185.5
57.5°	175.1	171.2	168.7	167.4	166.1	163.5	158.3	157.0	151.8	150.5	149.2
60°	146.6	142.7	138.8	136.2	134.9	131.0	125.8	123.2	120.7	116.8	112.9
62.5°	119.4	115.5	110.3	109.0	106.4	102.5	98.6	94.7	92.1	88.2	85.6
65°	96.0	92.1	88.2	85.6	83.0	79.1	75.2	71.4	68.8	67.5	66.2
67.5°	77.8	72.6	68.8	67.5	64.9	62.3	58.4	57.1	54.5	54.5	54.5
70°	61.0	57.1	53.2	51.9	50.6	48.0	45.4	45.4	45.4	45.4	45.4
72.5°	45.4	42.8	38.9	37.6	36.3	35.0	32.4	33.7	32.4	32.4	32.4
75°	28.5	25.9	23.4	22.1	20.8	19.5	18.2	16.9	15.6	14.3	14.3
77.5°	15.6	13.0	11.7	10.4	10.4	9.1	7.8	7.8	6.5	6.5	6.5
80°	9.1	7.8	6.5	5.2	5.2	3.9	3.9	3.9	3.9	2.6	2.6
82.5°	5.2	3.9	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
85°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P252362

CATALOG NUMBER: LD6B20D010 EU6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	991.1	995.0	991.1	995.0	995.0	995.0	995.0	991.1
5°	984.7	987.3	983.4	986.0	987.3	986.0	986.0	982.1
7.5°	973.0	975.6	971.7	975.6	976.9	975.6	974.3	971.7
10°	961.3	962.6	958.7	961.3	963.9	963.9	962.6	958.7
12.5°	943.1	947.0	943.1	945.7	948.3	949.6	949.6	945.7
15°	922.4	928.9	926.3	930.2	934.1	935.4	935.4	934.1
17.5°	901.6	908.1	904.2	910.7	914.6	917.2	918.5	915.9
20°	871.8	879.6	877.0	882.2	887.4	891.3	891.3	887.4
22.5°	832.9	843.3	842.0	845.8	852.3	853.6	856.2	853.6
25°	790.1	797.8	796.5	800.4	808.2	808.2	809.5	809.5
27.5°	740.8	748.5	747.3	749.8	755.0	756.3	757.6	755.0
30°	687.6	691.5	691.5	695.4	699.3	700.5	700.5	696.7
32.5°	629.2	634.4	637.0	635.7	639.6	642.2	640.9	640.9
35°	576.0	577.3	578.6	579.9	581.2	583.8	581.2	579.9
37.5°	518.9	522.8	520.2	522.8	525.4	524.1	522.8	522.8
40°	467.0	468.3	465.7	468.3	469.6	469.6	469.6	467.0
42.5°	415.1	417.7	415.1	417.7	417.7	417.7	417.7	416.4
45°	363.2	365.8	365.8	367.1	367.1	365.8	365.8	365.8
47.5°	315.2	317.8	315.2	317.8	319.1	316.5	316.5	316.5
50°	269.8	268.5	268.5	269.8	269.8	269.8	269.8	268.5
52.5°	223.1	224.4	224.4	224.4	225.7	224.4	225.7	225.7
55°	182.9	182.9	182.9	184.2	182.9	182.9	184.2	185.5
57.5°	146.6	145.3	144.0	144.0	145.3	144.0	144.0	144.0
60°	112.9	111.6	110.3	110.3	110.3	110.3	110.3	109.0
62.5°	84.3	84.3	84.3	85.6	85.6	85.6	85.6	86.9
65°	67.5	67.5	67.5	67.5	67.5	67.5	67.5	68.8
67.5°	54.5	54.5	54.5	55.8	55.8	55.8	55.8	55.8
70°	45.4	45.4	46.7	45.4	46.7	46.7	46.7	46.7
72.5°	31.1	31.1	31.1	31.1	31.1	29.8	31.1	29.8
75°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	11.7
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)