

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: P252650

Luminaire Tested: **LD6B10D010 EU6B10208035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10208035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1017.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

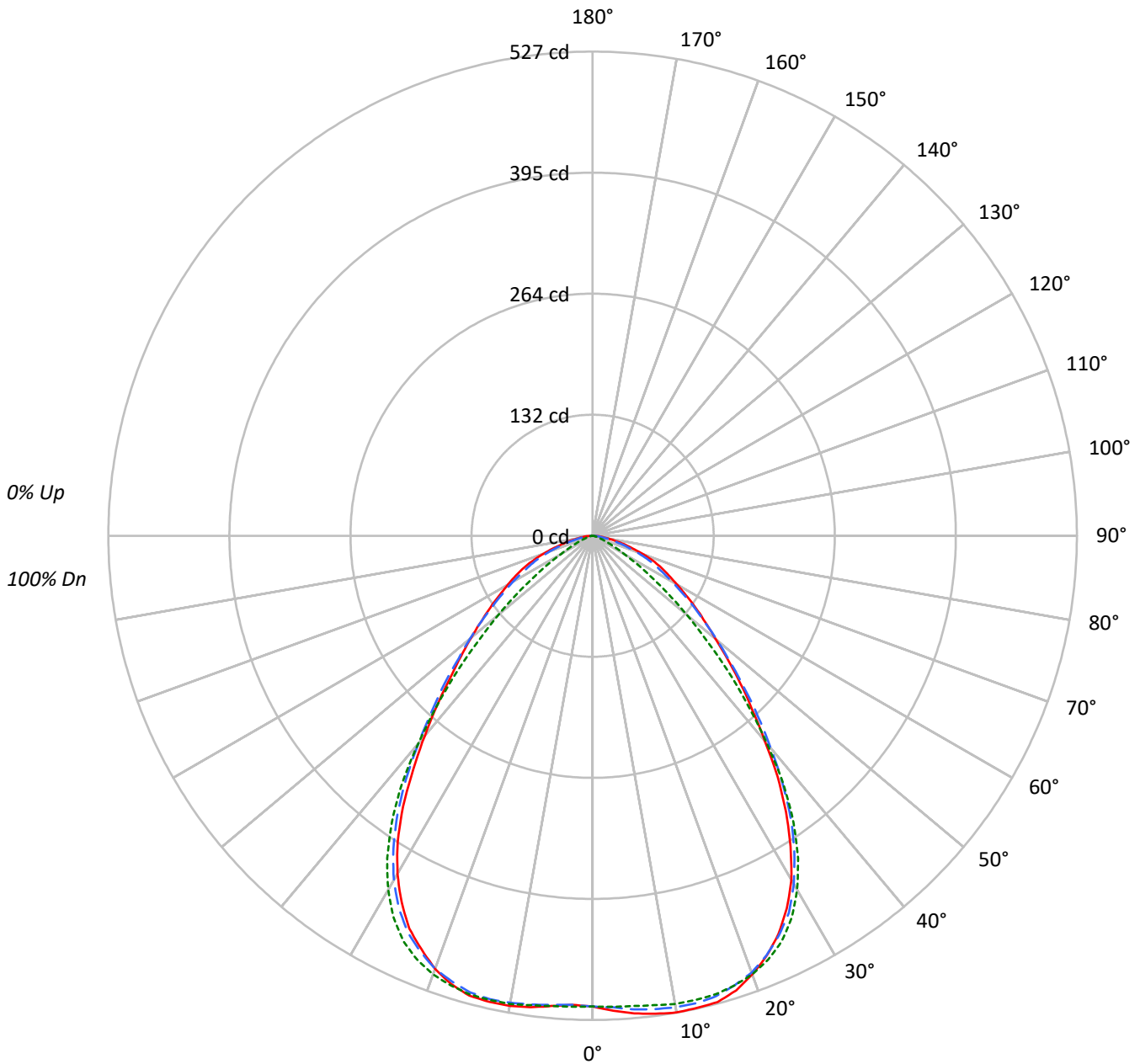
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33429	33429	33429
5°	34173	33649	33649
10°	34906	34283	34422
15°	35487	34899	35000
20°	35269	35269	34818
25°	34430	35057	33963
30°	32597	33523	31994
35°	29205	30360	28632
40°	24809	25124	24196
45°	20999	19191	20261
50°	17731	13540	17508
55°	15583	8736	15412
60°	13805	5206	13896
65°	12751	3134	12751
70°	11064	1793	10777
75°	8772	1084	8217
80°	6537	827	6274
85°	5988	524	5390



TEST NUMBER: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	4.9
10°-20°	146.0	14.4
20°-30°	219.6	21.6
30°-40°	230.9	22.7
40°-50°	172.5	17.0
50°-60°	107.4	10.6
60°-70°	61.1	6.0
70°-80°	25.1	2.5
80°-90°	5.2	0.5
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°	414.9	40.8
0°-40°	645.8	63.5
0°-60°	925.6	91.0
0°-90°	1017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1017.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	512	512	512	512	512	
5°	522	518	514	512	514	50
15°	525	519	517	515	518	148
25°	478	480	487	476	472	219
35°	367	376	381	370	360	228
45°	228	233	208	228	220	176
55°	137	134	77	132	136	123
65°	83	74	20	74	83	81
75°	35	28	4	27	33	38
85°	8	5	1	4	7	9
90°	0	0	0	0	0	



TEST NUMBER: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4
2.5°	517.5	516.7	517.5	516.0	515.3	515.3	516.0	514.6	513.8	514.6	513.8
5°	521.8	520.4	521.1	520.4	518.9	518.9	519.6	517.5	517.5	518.2	517.5
7.5°	524.7	524.7	524.7	523.3	522.5	521.8	523.3	521.1	520.4	520.4	519.6
10°	526.9	526.2	526.9	525.4	524.0	523.3	524.7	523.3	521.8	523.3	521.1
12.5°	526.2	526.2	526.2	525.4	524.0	523.3	524.7	522.5	521.8	522.5	521.1
15°	525.4	523.3	524.0	523.3	521.1	521.1	521.8	519.6	518.2	520.4	518.9
17.5°	518.9	517.5	518.2	516.7	515.3	514.6	515.3	514.6	513.1	514.6	513.1
20°	508.0	508.0	508.8	507.3	505.9	505.1	506.6	505.1	503.7	505.9	505.9
22.5°	495.0	495.0	495.0	494.3	493.5	493.5	493.5	492.8	492.1	493.5	494.3
25°	478.3	477.6	478.3	479.0	478.3	477.6	478.3	478.3	476.9	479.8	479.8
27.5°	457.3	457.3	458.8	458.0	458.0	457.3	458.8	458.8	458.0	460.2	462.4
30°	432.7	431.2	432.7	432.7	433.4	433.4	434.1	434.1	434.1	436.3	437.7
32.5°	400.8	401.5	403.7	403.0	402.2	404.4	404.4	405.9	406.6	408.0	408.7
35°	366.7	367.4	367.4	368.2	369.6	368.2	371.8	371.1	371.8	374.7	376.1
37.5°	330.5	328.3	331.9	330.5	331.2	331.2	332.7	333.4	335.6	339.2	339.2
40°	291.3	292.1	293.5	294.2	295.0	295.0	295.0	297.1	297.9	302.2	301.5
42.5°	257.3	257.3	258.7	259.5	259.5	259.5	259.5	261.6	263.1	264.5	266.0
45°	227.6	225.4	226.8	226.8	228.3	227.6	229.0	230.5	231.2	233.4	232.6
47.5°	199.3	198.6	199.3	200.0	199.3	200.0	200.8	201.5	202.2	202.2	202.2
50°	174.7	174.7	175.4	176.1	176.1	176.1	176.1	176.8	176.8	178.3	176.8
52.5°	154.4	155.1	155.1	154.4	155.1	155.1	155.8	155.8	155.1	155.1	152.9
55°	137.0	136.2	137.0	136.2	137.0	137.0	136.2	136.2	135.5	134.8	134.1
57.5°	120.3	120.3	120.3	120.3	119.6	120.3	119.6	118.9	118.9	117.4	115.2
60°	105.8	105.8	105.8	105.8	105.8	105.1	105.8	105.1	103.6	102.2	99.3
62.5°	93.5	92.8	93.5	92.8	92.8	92.0	92.0	91.3	89.9	88.4	85.5
65°	82.6	83.3	82.6	82.6	81.9	81.2	81.2	80.4	78.3	76.8	73.9
67.5°	71.0	70.3	70.3	70.3	69.6	69.6	69.6	68.1	66.7	64.5	61.6
70°	58.0	58.0	58.0	57.3	57.3	56.5	56.5	55.8	54.4	52.9	49.3
72.5°	45.7	45.7	45.7	44.2	44.9	44.2	44.2	42.8	42.0	39.9	37.7
75°	34.8	34.8	34.1	34.1	33.3	32.6	32.6	31.9	31.2	29.7	27.5
77.5°	25.4	25.4	25.4	24.6	23.9	23.2	23.2	22.5	21.7	21.0	19.6
80°	17.4	17.4	17.4	17.4	16.7	15.9	15.9	15.2	15.2	14.5	13.0
82.5°	11.6	11.6	11.6	11.6	10.9	10.9	10.9	10.1	9.4	9.4	8.0
85°	8.0	8.0	7.2	7.2	7.2	7.2	6.5	6.5	5.8	5.1	5.1
87.5°	4.3	4.3	4.3	4.3	3.6	3.6	3.6	3.6	2.9	2.9	2.2
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: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4
2.5°	516.0	516.0	515.3	513.1	513.8	513.1	513.8	513.1	510.9	513.1	510.9
5°	518.9	519.6	518.2	515.3	516.0	515.3	515.3	514.6	512.4	513.8	512.4
7.5°	521.8	521.1	520.4	517.5	518.2	517.5	517.5	516.0	513.8	515.3	513.1
10°	523.3	523.3	521.8	518.9	518.9	518.2	518.9	518.2	515.3	517.5	516.0
12.5°	523.3	522.5	522.5	518.9	519.6	518.9	519.6	518.2	516.0	517.5	516.7
15°	521.1	521.1	520.4	516.7	517.5	517.5	518.2	516.7	514.6	516.7	515.3
17.5°	516.7	516.7	516.0	513.1	514.6	514.6	515.3	513.8	511.7	513.1	513.1
20°	508.0	508.8	508.8	506.6	508.0	508.0	508.8	508.0	507.3	508.0	506.6
22.5°	497.9	499.3	499.3	497.2	498.6	498.6	500.8	500.1	498.6	499.3	498.6
25°	482.7	484.1	485.6	484.1	485.6	485.6	487.7	487.0	485.6	487.0	484.8
27.5°	465.3	466.0	467.5	466.0	468.2	467.5	469.6	468.9	466.7	468.9	468.2
30°	440.6	443.5	445.7	443.5	445.7	445.7	447.2	446.4	445.7	445.0	445.0
32.5°	413.1	416.0	416.0	415.3	416.7	416.7	417.4	416.0	415.3	416.0	416.7
35°	379.0	380.5	381.9	381.2	381.9	382.7	381.9	382.7	380.5	381.2	381.2
37.5°	342.1	343.5	343.5	341.3	342.8	342.8	341.3	341.3	339.9	341.3	338.5
40°	302.9	301.5	302.2	300.8	299.3	299.3	298.6	295.7	294.2	295.0	295.7
42.5°	264.5	264.5	262.4	258.7	255.1	255.1	252.9	251.5	248.6	250.0	249.3
45°	231.9	228.3	225.4	219.6	217.4	216.0	212.3	208.7	207.3	208.0	207.3
47.5°	200.8	197.9	190.6	182.6	180.5	178.3	173.9	169.6	168.1	166.7	166.7
50°	174.7	169.6	161.6	152.9	149.3	145.7	139.9	135.5	132.6	133.4	133.4
52.5°	150.7	144.9	135.5	124.7	120.3	116.0	110.9	105.8	103.6	102.9	102.9
55°	129.7	123.2	113.8	101.5	97.8	92.8	86.2	80.4	77.5	76.8	78.3
57.5°	110.9	105.1	94.2	81.9	77.5	72.5	66.0	60.9	57.3	56.5	57.3
60°	95.7	87.7	78.3	66.7	60.9	56.5	49.3	44.9	41.3	39.9	40.6
62.5°	80.4	73.2	63.8	52.2	47.8	43.5	37.0	31.9	29.0	28.3	29.0
65°	68.8	61.6	52.9	42.8	38.4	34.1	28.3	23.2	21.0	20.3	21.0
67.5°	57.3	50.7	43.5	34.1	30.4	26.8	21.0	17.4	14.5	13.8	14.5
70°	46.4	40.6	33.3	26.8	23.2	20.3	15.9	12.3	10.1	9.4	10.1
72.5°	34.8	30.4	25.4	19.6	17.4	15.2	11.6	8.7	7.2	6.5	7.2
75°	25.4	21.7	18.1	13.8	12.3	10.9	8.0	5.8	5.1	4.3	5.1
77.5°	17.4	15.2	12.3	9.4	8.0	7.2	5.1	4.3	3.6	2.9	2.9
80°	11.6	10.1	8.0	6.5	5.8	5.1	3.6	2.9	2.2	2.2	2.2
82.5°	7.2	5.8	5.1	3.6	2.9	2.9	2.2	1.4	1.4	1.4	1.4
85°	4.3	3.6	2.9	2.2	1.4	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	2.2	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7
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: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4
2.5°	512.4	510.9	510.9	511.7	512.4	513.1	511.7	510.9	510.9	513.1	511.7
5°	512.4	511.7	511.7	511.7	513.1	513.8	512.4	511.7	512.4	514.6	513.8
7.5°	514.6	513.1	513.8	513.8	514.6	516.0	514.6	513.8	514.6	516.7	515.3
10°	516.0	514.6	515.3	514.6	516.7	517.5	516.0	515.3	516.0	518.9	518.2
12.5°	516.7	516.0	516.0	515.3	517.5	518.2	516.7	516.0	516.7	518.9	518.2
15°	515.3	514.6	514.6	514.6	516.0	517.5	515.3	514.6	514.6	516.7	516.0
17.5°	512.4	510.9	510.9	510.9	511.7	512.4	510.2	509.5	508.8	510.9	510.2
20°	507.3	505.9	504.4	504.4	505.1	505.1	503.7	501.5	501.5	502.2	500.8
22.5°	497.9	497.2	495.7	495.0	496.4	495.7	492.8	490.6	489.9	490.6	489.2
25°	484.8	483.4	482.7	481.9	482.7	481.9	479.0	476.1	476.1	476.1	474.0
27.5°	466.7	465.3	464.6	464.6	465.3	463.8	460.9	458.0	456.6	456.6	454.4
30°	443.5	443.5	442.8	442.1	441.4	441.4	437.0	434.1	432.7	433.4	431.9
32.5°	415.3	414.5	413.8	411.6	412.4	411.6	408.0	405.9	403.7	402.2	401.5
35°	379.0	379.0	378.3	378.3	378.3	377.6	374.0	371.8	370.3	369.6	367.4
37.5°	339.2	338.5	337.7	337.7	337.7	337.7	335.6	333.4	333.4	332.7	331.2
40°	294.2	295.0	295.7	295.0	297.1	299.3	296.4	295.0	294.2	296.4	293.5
42.5°	250.8	250.0	253.7	254.4	254.4	258.0	258.7	259.5	258.7	260.2	260.2
45°	208.7	208.0	211.6	213.1	216.7	221.0	223.2	226.8	228.3	229.7	228.3
47.5°	168.9	171.8	174.7	178.3	181.2	188.4	192.8	196.4	197.9	200.0	200.0
50°	135.5	138.4	143.5	146.4	150.0	158.7	166.0	171.0	173.9	176.1	175.4
52.5°	104.4	109.4	116.0	118.9	123.9	134.1	142.0	147.8	151.5	153.6	154.4
55°	80.4	84.8	91.3	95.7	100.7	111.6	121.8	128.3	131.9	134.8	136.2
57.5°	59.4	64.5	71.7	75.4	81.2	93.5	102.2	110.2	114.5	118.1	118.9
60°	43.5	48.6	55.1	59.4	65.2	77.5	87.7	94.9	100.0	102.9	104.4
62.5°	31.2	36.2	42.8	47.1	52.2	63.1	73.2	80.4	85.5	89.1	91.3
65°	22.5	27.5	34.1	37.7	42.0	52.2	61.6	68.8	73.9	78.3	79.7
67.5°	16.7	20.3	26.1	29.7	34.1	42.0	50.0	56.5	61.6	65.2	66.7
70°	12.3	15.2	20.3	22.5	25.4	32.6	39.1	44.9	49.3	52.2	53.6
72.5°	8.7	10.9	14.5	16.7	18.8	24.6	29.7	34.1	37.0	39.9	41.3
75°	5.8	7.2	10.1	11.6	13.0	17.4	21.0	24.6	26.8	29.0	29.7
77.5°	3.6	5.1	7.2	8.0	9.4	11.6	14.5	16.7	18.1	19.6	21.0
80°	2.2	2.9	4.3	5.1	5.8	8.0	9.4	10.9	12.3	13.8	14.5
82.5°	1.4	2.2	2.9	2.9	3.6	4.3	5.8	7.2	8.0	8.7	9.4
85°	0.7	0.7	1.4	1.4	2.2	2.2	2.9	3.6	4.3	5.1	5.8
87.5°	0.7	0.7	0.7	0.7	1.4	1.4	2.2	2.2	2.2	2.9	2.9
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: P252650

CATALOG NUMBER: LD6B10D010 EU6B10208035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4
2.5°	510.2	512.4	510.2	511.7	510.9	510.9	510.2	510.9
5°	512.4	515.3	512.4	514.6	513.1	513.1	513.1	513.8
7.5°	514.6	517.5	515.3	517.5	516.7	516.0	516.0	517.5
10°	516.7	518.9	517.5	519.6	518.9	518.2	518.2	519.6
12.5°	516.7	519.6	518.2	520.4	519.6	518.9	518.9	519.6
15°	514.6	518.2	516.0	518.2	517.5	516.7	516.7	518.2
17.5°	508.0	510.9	509.5	510.9	510.9	510.2	510.9	511.7
20°	499.3	501.5	500.1	501.5	501.5	500.1	500.8	501.5
22.5°	487.0	489.2	487.7	489.2	488.5	487.7	487.7	487.0
25°	471.8	474.7	472.5	474.0	472.5	471.1	471.1	471.8
27.5°	453.0	455.1	452.2	453.7	452.2	450.8	450.8	450.1
30°	428.3	429.0	426.9	428.3	426.9	426.1	424.7	424.7
32.5°	398.6	399.3	397.2	397.2	395.7	395.7	392.8	395.0
35°	363.8	364.5	363.8	363.1	360.9	360.2	359.5	359.5
37.5°	327.6	327.6	325.4	324.7	323.2	321.8	322.5	320.3
40°	290.6	289.9	287.7	288.4	287.7	285.5	284.8	284.1
42.5°	255.8	255.8	253.7	254.4	252.9	252.2	250.0	250.8
45°	225.4	225.4	223.2	223.2	222.5	220.3	221.0	219.6
47.5°	197.9	197.9	197.1	197.1	195.0	194.2	194.2	194.2
50°	173.9	173.9	173.9	173.9	173.2	172.5	171.8	172.5
52.5°	153.6	155.1	154.4	154.4	153.6	152.9	152.2	152.2
55°	135.5	136.2	136.2	137.0	136.2	135.5	136.2	135.5
57.5°	119.6	121.0	121.0	121.0	121.0	121.0	120.3	119.6
60°	105.8	106.5	106.5	107.3	107.3	107.3	106.5	106.5
62.5°	92.0	93.5	94.2	94.2	94.9	94.2	94.2	94.2
65°	81.2	82.6	83.3	82.6	83.3	83.3	82.6	82.6
67.5°	68.1	69.6	69.6	69.6	69.6	70.3	69.6	69.6
70°	55.1	56.5	55.8	56.5	56.5	56.5	56.5	56.5
72.5°	42.0	42.8	43.5	43.5	44.2	43.5	43.5	43.5
75°	30.4	31.9	31.9	31.9	31.9	32.6	32.6	32.6
77.5°	21.7	22.5	22.5	23.2	23.2	23.2	23.2	23.9
80°	15.2	15.2	15.9	15.9	16.7	16.7	16.7	16.7
82.5°	10.1	10.9	10.9	10.9	10.9	10.9	10.9	10.9
85°	5.8	6.5	6.5	6.5	6.5	7.2	7.2	7.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9
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)