

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: P252342

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252342
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: LD6B10D010 EU6B10209027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 789.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

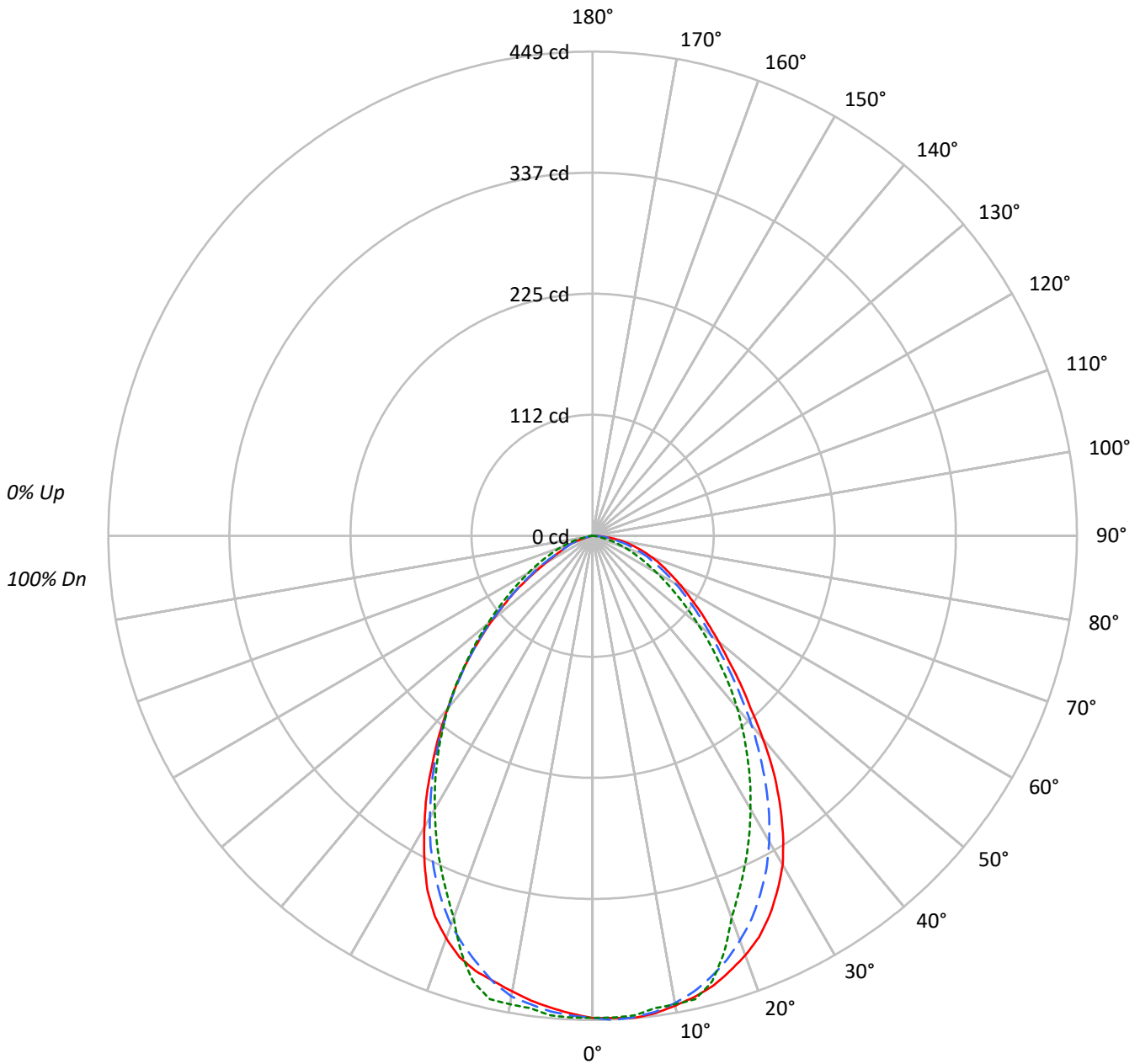
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

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°	29169	29169	29169
5°	29392	29241	28783
10°	29308	29228	28427
15°	29178	28901	28233
20°	28743	26160	27570
25°	27959	24115	26080
30°	26547	22043	23489
35°	24092	19927	20668
40°	20917	17749	17800
45°	17835	15270	15104
50°	15438	12900	12200
55°	13797	10760	9441
60°	12578	8938	6367
65°	11748	7348	4755
70°	11178	5990	3987
75°	10537	4235	1311
80°	10031	2179	451
85°	8234	1273	0



TEST NUMBER: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	5.4
10°-20°	118.1	15.0
20°-30°	163.0	20.7
30°-40°	165.9	21.0
40°-50°	133.3	16.9
50°-60°	88.6	11.2
60°-70°	50.5	6.4
70°-80°	22.7	2.9
80°-90°	4.8	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°	323.3	41.0
0°-40°	489.1	62.0
0°-60°	711.0	90.1
0°-90°	789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	447	447	447	447	447	
5°	449	448	446	443	440	43
15°	432	424	428	411	418	122
25°	388	368	335	346	362	178
35°	302	279	250	255	260	188
45°	193	182	166	164	164	150
55°	121	113	95	84	83	109
65°	76	68	48	31	31	76
75°	42	35	17	7	5	45
85°	11	8	2	1	0	13
90°	0	0	0	0	0	



TEST NUMBER: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	447.6	450.0	449.4	448.8	449.4	448.8	447.6	447.6	446.5	446.5	449.4
5°	448.8	450.0	449.4	448.8	448.8	449.4	447.1	447.1	445.9	445.3	448.2
7.5°	446.5	448.2	447.1	447.1	446.5	447.1	444.7	444.7	443.0	442.4	445.3
10°	442.4	444.7	443.6	443.6	443.6	442.4	441.2	440.7	438.9	438.3	440.1
12.5°	437.8	439.5	438.9	437.8	437.8	437.8	435.4	434.9	432.5	431.4	433.1
15°	432.0	433.1	432.5	432.0	430.8	430.8	428.5	427.3	425.0	422.7	423.8
17.5°	423.2	425.0	423.8	423.2	421.5	421.5	419.2	418.0	414.5	412.2	412.8
20°	414.0	414.5	414.0	412.8	411.1	410.5	408.2	405.8	402.9	400.0	399.4
22.5°	402.9	403.5	401.8	400.6	398.9	398.3	395.4	393.6	389.0	385.5	384.9
25°	388.4	389.0	389.0	386.1	384.9	383.8	380.9	378.0	373.9	369.3	367.5
27.5°	371.0	372.7	371.6	368.7	366.4	365.8	362.9	360.5	355.3	351.3	348.9
30°	352.4	351.8	351.3	349.5	346.0	345.5	342.5	339.6	335.6	330.4	327.5
32.5°	328.6	328.6	328.0	326.3	322.8	321.6	319.3	315.8	311.2	307.1	304.2
35°	302.5	303.1	302.5	299.0	296.7	295.5	294.4	290.3	286.2	281.6	279.3
37.5°	275.2	273.5	274.0	271.1	268.2	269.4	265.9	264.2	259.5	256.0	253.7
40°	245.6	246.8	244.4	243.3	241.5	239.8	239.8	236.9	234.6	230.5	229.3
42.5°	216.6	218.3	217.7	216.6	214.2	214.8	211.9	210.8	207.9	206.1	204.4
45°	193.3	193.3	193.3	192.2	191.6	190.4	188.7	186.9	185.2	182.9	181.7
47.5°	170.7	170.7	171.3	170.1	169.0	168.4	167.2	167.2	164.3	162.0	160.8
50°	152.1	152.1	152.1	151.0	149.8	149.8	148.6	147.5	145.7	144.0	142.8
52.5°	135.3	135.3	135.3	134.1	133.5	133.0	132.4	131.8	129.5	128.3	127.1
55°	121.3	120.8	120.8	120.2	119.0	119.0	118.4	117.3	115.5	113.8	113.2
57.5°	107.4	108.0	107.4	107.4	106.2	106.2	105.1	104.5	102.8	101.6	100.4
60°	96.4	96.4	96.4	95.8	94.6	95.2	94.1	93.5	91.7	90.0	88.8
62.5°	85.3	85.9	85.9	85.3	84.2	84.2	83.6	83.0	81.3	79.5	77.8
65°	76.1	76.1	76.1	75.5	74.9	74.9	74.3	73.7	72.0	69.7	67.9
67.5°	67.3	66.8	66.8	66.8	66.2	65.6	65.0	64.4	62.7	61.0	58.6
70°	58.6	58.6	58.6	58.1	56.9	57.5	56.9	56.3	54.6	52.8	51.1
72.5°	50.5	50.5	49.9	49.4	49.4	48.8	48.8	48.2	46.4	44.1	42.4
75°	41.8	41.8	41.8	41.8	40.6	41.2	40.1	39.5	38.3	36.6	34.8
77.5°	34.3	34.3	34.3	33.7	33.1	33.1	32.5	31.9	30.2	29.0	26.7
80°	26.7	26.7	26.7	26.7	26.1	25.5	25.0	24.4	23.2	21.5	19.7
82.5°	19.7	19.7	19.2	19.2	19.2	18.6	18.0	17.4	16.3	15.1	13.9
85°	11.0	11.6	11.6	10.5	11.0	10.5	10.5	9.3	9.3	8.1	7.5
87.5°	4.1	3.5	3.5	3.5	3.5	3.5	3.5	2.9	2.9	2.9	2.3
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: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	447.1	446.5	448.8	448.8	445.3	447.1	447.6	446.5	446.5	447.1	445.3
5°	445.9	444.7	447.1	447.6	444.2	445.9	446.5	445.3	445.9	446.5	444.2
7.5°	441.8	441.8	443.6	444.2	440.7	442.4	442.4	441.2	441.8	441.8	440.1
10°	437.8	436.0	437.8	437.8	434.9	435.4	436.6	436.0	438.3	441.2	441.2
12.5°	430.2	428.5	431.4	431.4	429.6	432.0	434.9	436.6	438.9	440.1	436.6
15°	420.9	421.5	426.7	430.8	429.1	432.5	435.4	434.3	431.4	427.9	422.7
17.5°	408.7	407.0	411.6	414.0	411.6	412.8	415.1	412.8	408.2	405.3	398.3
20°	394.8	390.2	390.2	389.0	384.9	384.9	384.4	380.3	378.5	376.8	373.9
22.5°	379.1	373.9	372.2	368.7	365.2	364.6	362.9	358.8	356.5	355.3	351.8
25°	361.1	356.5	353.6	350.1	344.9	343.7	342.0	337.9	336.7	335.0	332.1
27.5°	342.5	336.7	332.7	329.2	324.5	324.0	320.5	317.6	315.3	314.1	311.8
30°	321.1	314.7	311.8	307.1	303.6	302.5	299.6	295.5	293.8	292.6	290.9
32.5°	297.3	292.0	289.1	285.1	280.4	281.0	277.5	274.0	272.9	271.7	270.0
35°	274.0	268.8	265.3	261.8	258.9	257.8	255.5	252.6	250.8	250.2	249.1
37.5°	248.5	244.4	241.5	238.0	235.7	234.6	233.4	230.5	229.3	229.3	227.0
40°	223.5	220.0	217.7	216.0	213.1	212.5	211.3	209.6	209.0	208.4	206.7
42.5°	200.9	196.2	194.5	193.3	191.6	190.4	189.9	188.7	188.1	187.5	185.8
45°	179.4	175.3	173.6	172.4	170.7	170.1	169.5	167.8	166.6	165.5	164.9
47.5°	158.5	155.6	155.0	152.1	151.0	149.8	148.6	147.5	146.9	146.3	144.0
50°	140.5	138.8	135.9	134.1	133.0	132.4	130.1	128.3	127.7	127.1	125.4
52.5°	124.2	121.9	120.2	117.3	116.7	115.5	114.4	112.1	110.9	110.3	108.6
55°	109.7	108.0	105.7	103.3	101.6	101.0	99.3	97.0	95.8	94.6	93.5
57.5°	97.5	94.6	92.3	90.0	88.8	87.1	85.3	84.2	82.4	80.7	79.0
60°	85.9	83.6	80.7	78.4	77.2	76.1	73.7	72.0	70.3	68.5	66.8
62.5°	74.9	72.6	69.7	67.3	66.2	65.0	62.7	61.0	59.2	57.5	55.2
65°	65.0	62.7	60.4	58.1	56.9	55.7	53.4	51.1	49.4	47.6	45.3
67.5°	56.9	54.0	51.7	49.4	48.2	47.0	44.7	43.0	40.6	38.9	36.6
70°	48.2	45.9	44.1	41.8	40.6	39.5	37.2	34.8	33.1	31.4	29.0
72.5°	40.6	37.7	36.0	33.7	32.5	31.9	29.6	27.9	26.1	23.8	22.1
75°	32.5	30.2	27.9	26.1	25.0	24.4	22.1	20.3	18.6	16.8	15.1
77.5°	25.0	23.2	20.9	19.2	18.0	17.4	15.1	13.4	11.6	10.5	8.7
80°	18.6	16.3	15.1	13.4	12.8	11.6	10.5	8.7	7.5	5.8	4.6
82.5°	12.8	11.0	9.9	8.7	8.1	7.5	6.4	5.2	4.1	3.5	2.9
85°	7.0	5.8	5.2	4.6	4.1	4.1	3.5	2.9	2.3	1.7	1.2
87.5°	2.3	1.7	1.7	1.7	1.7	1.2	1.2	1.2	0.6	0.6	0.6
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: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	446.5	446.5	446.5	445.9	445.9	445.9	445.3	447.6	445.3	444.7	446.5
5°	445.9	444.7	444.7	444.7	444.7	444.2	443.6	444.7	443.0	442.4	442.4
7.5°	442.4	441.8	441.8	441.2	440.7	440.1	439.5	440.1	438.3	437.8	437.8
10°	443.0	441.8	441.8	440.1	438.9	437.2	435.4	436.0	433.7	432.0	432.0
12.5°	436.0	433.1	431.4	429.6	428.5	427.9	425.6	426.7	424.4	423.8	423.8
15°	420.3	416.9	414.0	412.8	412.8	411.6	409.9	412.2	411.1	411.6	414.5
17.5°	396.0	394.2	392.5	391.9	392.5	393.6	394.8	398.3	398.3	400.0	402.9
20°	374.5	373.3	374.5	374.5	375.1	377.4	379.7	382.6	383.8	385.5	389.6
22.5°	353.6	353.6	354.7	356.5	355.9	360.0	360.5	365.8	365.8	369.3	372.7
25°	333.3	333.3	334.4	335.0	336.2	338.5	340.8	344.9	346.0	349.5	352.4
27.5°	313.5	312.9	312.9	313.5	314.7	317.6	318.7	323.4	325.1	327.5	330.4
30°	291.5	290.9	292.0	293.2	292.6	295.5	297.3	300.7	301.9	304.2	306.6
32.5°	270.6	270.6	270.6	271.7	271.7	274.0	274.0	278.1	278.1	279.8	282.2
35°	249.1	249.1	249.7	250.2	250.8	251.4	252.0	254.3	254.9	255.5	256.6
37.5°	228.8	228.2	228.8	228.8	227.6	229.9	229.9	232.2	230.5	232.2	232.8
40°	207.9	207.9	207.3	207.3	207.3	208.4	207.3	209.0	207.9	209.0	208.4
42.5°	186.4	186.4	185.2	186.4	185.8	185.8	185.8	186.9	185.2	186.4	186.9
45°	164.9	164.3	164.3	163.7	163.7	163.7	164.3	164.3	163.7	164.9	164.9
47.5°	144.0	143.4	143.4	143.4	143.4	144.0	142.2	143.4	142.2	142.2	142.2
50°	126.0	125.4	124.8	124.2	123.7	123.7	123.1	123.1	121.9	121.3	120.8
52.5°	108.6	108.0	106.8	106.8	106.2	105.7	103.9	103.9	102.2	101.6	101.6
55°	92.9	91.2	90.6	89.4	89.4	88.2	87.1	85.9	84.2	83.0	83.0
57.5°	78.4	76.6	75.5	74.9	74.3	73.2	70.8	70.3	67.9	67.3	66.8
60°	65.6	63.9	62.1	61.0	60.4	58.6	56.3	55.2	54.0	52.3	50.5
62.5°	53.4	51.7	49.4	48.8	47.6	45.9	44.1	42.4	41.2	39.5	38.3
65°	43.0	41.2	39.5	38.3	37.2	35.4	33.7	31.9	30.8	30.2	29.6
67.5°	34.8	32.5	30.8	30.2	29.0	27.9	26.1	25.5	24.4	24.4	24.4
70°	27.3	25.5	23.8	23.2	22.6	21.5	20.3	20.3	20.3	20.3	20.3
72.5°	20.3	19.2	17.4	16.8	16.3	15.7	14.5	15.1	14.5	14.5	14.5
75°	12.8	11.6	10.5	9.9	9.3	8.7	8.1	7.5	7.0	6.4	6.4
77.5°	7.0	5.8	5.2	4.6	4.6	4.1	3.5	3.5	2.9	2.9	2.9
80°	4.1	3.5	2.9	2.3	2.3	1.7	1.7	1.7	1.7	1.2	1.2
82.5°	2.3	1.7	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P252342

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	443.6	445.3	443.6	445.3	445.3	445.3	445.3	443.6
5°	440.7	441.8	440.1	441.2	441.8	441.2	441.2	439.5
7.5°	435.4	436.6	434.9	436.6	437.2	436.6	436.0	434.9
10°	430.2	430.8	429.1	430.2	431.4	431.4	430.8	429.1
12.5°	422.1	423.8	422.1	423.2	424.4	425.0	425.0	423.2
15°	412.8	415.7	414.5	416.3	418.0	418.6	418.6	418.0
17.5°	403.5	406.4	404.7	407.6	409.3	410.5	411.1	409.9
20°	390.2	393.6	392.5	394.8	397.1	398.9	398.9	397.1
22.5°	372.7	377.4	376.8	378.5	381.4	382.0	383.2	382.0
25°	353.6	357.1	356.5	358.2	361.7	361.7	362.3	362.3
27.5°	331.5	335.0	334.4	335.6	337.9	338.5	339.1	337.9
30°	307.7	309.5	309.5	311.2	312.9	313.5	313.5	311.8
32.5°	281.6	283.9	285.1	284.5	286.2	287.4	286.8	286.8
35°	257.8	258.4	258.9	259.5	260.1	261.3	260.1	259.5
37.5°	232.2	234.0	232.8	234.0	235.1	234.6	234.0	234.0
40°	209.0	209.6	208.4	209.6	210.2	210.2	210.2	209.0
42.5°	185.8	186.9	185.8	186.9	186.9	186.9	186.9	186.4
45°	162.6	163.7	163.7	164.3	164.3	163.7	163.7	163.7
47.5°	141.1	142.2	141.1	142.2	142.8	141.7	141.7	141.7
50°	120.8	120.2	120.2	120.8	120.8	120.8	120.8	120.2
52.5°	99.9	100.4	100.4	100.4	101.0	100.4	101.0	101.0
55°	81.9	81.9	81.9	82.4	81.9	81.9	82.4	83.0
57.5°	65.6	65.0	64.4	64.4	65.0	64.4	64.4	64.4
60°	50.5	49.9	49.4	49.4	49.4	49.4	49.4	48.8
62.5°	37.7	37.7	37.7	38.3	38.3	38.3	38.3	38.9
65°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.8
67.5°	24.4	24.4	24.4	25.0	25.0	25.0	25.0	25.0
70°	20.3	20.3	20.9	20.3	20.9	20.9	20.9	20.9
72.5°	13.9	13.9	13.9	13.9	13.9	13.4	13.9	13.4
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.2
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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)