

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: P252354

Luminaire Tested: **LD6B15D010 EU6B10209024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252354
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: LD6B15D010 EU6B10209024 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: 958.0 lumens
Efficiency: N/A
Efficacy: 66.6 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

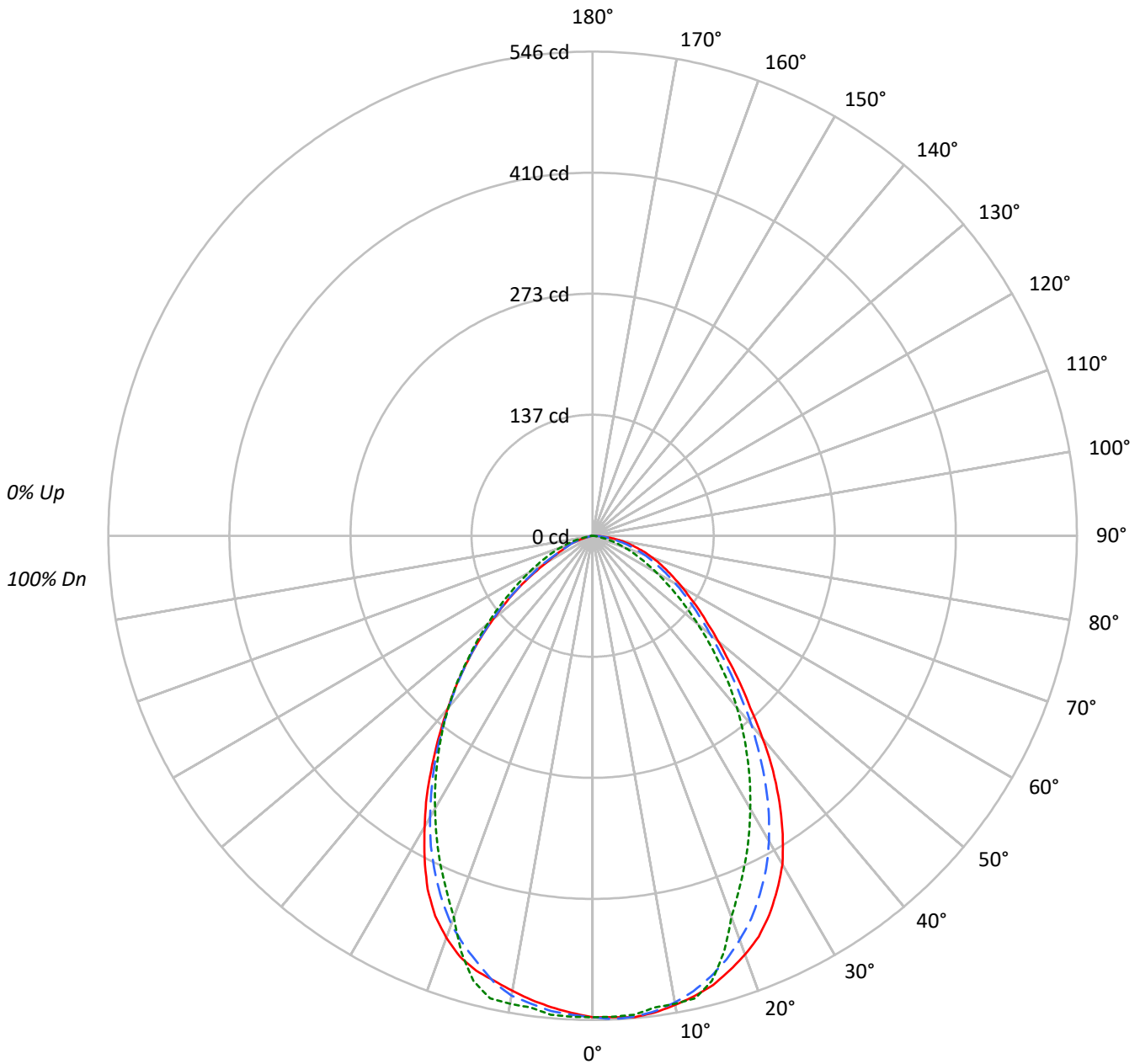
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 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°	35413	35413	35413
5°	35685	35502	34945
10°	35588	35495	34515
15°	35426	35088	34284
20°	34894	31763	33478
25°	33948	29284	31666
30°	32235	26766	28521
35°	29253	24196	25096
40°	25396	21555	21615
45°	21654	18536	18342
50°	18746	15671	14808
55°	16754	13069	11465
60°	15266	10856	7724
65°	14249	8923	5774
70°	13581	7268	4845
75°	12805	5142	1588
80°	12173	2630	526
85°	10031	1572	0



TEST NUMBER: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	5.4
10°-20°	143.4	15.0
20°-30°	197.9	20.7
30°-40°	201.4	21.0
40°-50°	161.8	16.9
50°-60°	107.6	11.2
60°-70°	61.3	6.4
70°-80°	27.5	2.9
80°-90°	5.8	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°	392.5	41.0
0°-40°	593.9	62.0
0°-60°	863.3	90.1
0°-90°	958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	543	543	543	543	543	
5°	545	544	542	538	534	52
15°	524	515	520	499	508	148
25°	472	446	407	420	440	216
35°	367	339	304	310	315	228
45°	235	221	201	199	199	182
55°	147	138	115	102	101	132
65°	92	82	58	37	37	92
75°	51	42	20	8	6	54
85°	13	9	2	1	0	16
90°	0	0	0	0	0	



TEST NUMBER: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	543.5	546.3	545.6	544.9	545.6	544.9	543.5	543.5	542.1	542.1	545.6
5°	544.9	546.3	545.6	544.9	544.9	545.6	542.8	542.8	541.4	540.7	544.2
7.5°	542.1	544.2	542.8	542.8	542.1	542.8	540.0	540.0	537.9	537.2	540.7
10°	537.2	540.0	538.6	538.6	538.6	537.2	535.8	535.1	532.9	532.2	534.4
12.5°	531.5	533.6	532.9	531.5	531.5	531.5	528.7	528.0	525.2	523.8	525.9
15°	524.5	525.9	525.2	524.5	523.1	523.1	520.3	518.8	516.0	513.2	514.6
17.5°	513.9	516.0	514.6	513.9	511.8	511.8	509.0	507.6	503.3	500.5	501.2
20°	502.6	503.3	502.6	501.2	499.1	498.4	495.6	492.8	489.2	485.7	485.0
22.5°	489.2	489.9	487.8	486.4	484.3	483.6	480.1	478.0	472.3	468.1	467.4
25°	471.6	472.3	472.3	468.8	467.4	466.0	462.4	458.9	454.0	448.3	446.2
27.5°	450.5	452.6	451.2	447.6	444.8	444.1	440.6	437.8	431.4	426.5	423.7
30°	427.9	427.2	426.5	424.4	420.1	419.4	415.9	412.4	407.5	401.1	397.6
32.5°	399.0	399.0	398.3	396.2	392.0	390.5	387.7	383.5	377.9	372.9	369.4
35°	367.3	368.0	367.3	363.0	360.2	358.8	357.4	352.5	347.5	341.9	339.1
37.5°	334.1	332.0	332.7	329.2	325.7	327.1	322.9	320.8	315.1	310.9	308.1
40°	298.2	299.6	296.8	295.4	293.3	291.1	291.1	287.6	284.8	279.9	278.5
42.5°	262.9	265.1	264.4	262.9	260.1	260.8	257.3	255.9	252.4	250.3	248.1
45°	234.7	234.7	234.7	233.3	232.6	231.2	229.1	227.0	224.9	222.1	220.6
47.5°	207.3	207.3	208.0	206.6	205.1	204.4	203.0	203.0	199.5	196.7	195.3
50°	184.7	184.7	184.7	183.3	181.9	181.9	180.5	179.1	176.9	174.8	173.4
52.5°	164.3	164.3	164.3	162.8	162.1	161.4	160.7	160.0	157.2	155.8	154.4
55°	147.3	146.6	146.6	145.9	144.5	144.5	143.8	142.4	140.3	138.2	137.5
57.5°	130.4	131.1	130.4	130.4	129.0	129.0	127.6	126.9	124.8	123.4	122.0
60°	117.0	117.0	117.0	116.3	114.9	115.6	114.2	113.5	111.4	109.3	107.9
62.5°	103.6	104.3	104.3	103.6	102.2	102.2	101.5	100.8	98.7	96.6	94.5
65°	92.3	92.3	92.3	91.6	90.9	90.9	90.2	89.5	87.4	84.6	82.5
67.5°	81.8	81.1	81.1	81.1	80.4	79.7	79.0	78.2	76.1	74.0	71.2
70°	71.2	71.2	71.2	70.5	69.1	69.8	69.1	68.4	66.3	64.2	62.0
72.5°	61.3	61.3	60.6	59.9	59.9	59.2	59.2	58.5	56.4	53.6	51.5
75°	50.8	50.8	50.8	50.8	49.3	50.1	48.6	47.9	46.5	44.4	42.3
77.5°	41.6	41.6	41.6	40.9	40.2	40.2	39.5	38.8	36.7	35.2	32.4
80°	32.4	32.4	32.4	32.4	31.7	31.0	30.3	29.6	28.2	26.1	24.0
82.5°	24.0	24.0	23.3	23.3	23.3	22.6	21.9	21.1	19.7	18.3	16.9
85°	13.4	14.1	14.1	12.7	13.4	12.7	12.7	11.3	11.3	9.9	9.2
87.5°	4.9	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5	3.5	2.8
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: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	542.8	542.1	544.9	544.9	540.7	542.8	543.5	542.1	542.1	542.8	540.7
5°	541.4	540.0	542.8	543.5	539.3	541.4	542.1	540.7	541.4	542.1	539.3
7.5°	536.5	536.5	538.6	539.3	535.1	537.2	537.2	535.8	536.5	536.5	534.4
10°	531.5	529.4	531.5	531.5	528.0	528.7	530.1	529.4	532.2	535.8	535.8
12.5°	522.4	520.3	523.8	523.8	521.7	524.5	528.0	530.1	532.9	534.4	530.1
15°	511.1	511.8	518.1	523.1	521.0	525.2	528.7	527.3	523.8	519.5	513.2
17.5°	496.3	494.2	499.8	502.6	499.8	501.2	504.0	501.2	495.6	492.1	483.6
20°	479.4	473.7	473.7	472.3	467.4	467.4	466.7	461.7	459.6	457.5	454.0
22.5°	460.3	454.0	451.9	447.6	443.4	442.7	440.6	435.7	432.8	431.4	427.2
25°	438.5	432.8	429.3	425.1	418.7	417.3	415.2	410.3	408.9	406.8	403.2
27.5°	415.9	408.9	403.9	399.7	394.1	393.4	389.1	385.6	382.8	381.4	378.6
30°	389.8	382.1	378.6	372.9	368.7	367.3	363.8	358.8	356.7	355.3	353.2
32.5°	360.9	354.6	351.1	346.1	340.5	341.2	337.0	332.7	331.3	329.9	327.8
35°	332.7	326.4	322.2	317.9	314.4	313.0	310.2	306.7	304.5	303.8	302.4
37.5°	301.7	296.8	293.3	289.0	286.2	284.8	283.4	279.9	278.5	278.5	275.6
40°	271.4	267.2	264.4	262.2	258.7	258.0	256.6	254.5	253.8	253.1	251.0
42.5°	243.9	238.3	236.2	234.7	232.6	231.2	230.5	229.1	228.4	227.7	225.6
45°	217.8	212.9	210.8	209.4	207.3	206.6	205.8	203.7	202.3	200.9	200.2
47.5°	192.5	188.9	188.2	184.7	183.3	181.9	180.5	179.1	178.4	177.6	174.8
50°	170.6	168.5	165.0	162.8	161.4	160.7	157.9	155.8	155.1	154.4	152.3
52.5°	150.9	148.0	145.9	142.4	141.7	140.3	138.9	136.1	134.6	133.9	131.8
55°	133.2	131.1	128.3	125.5	123.4	122.7	120.5	117.7	116.3	114.9	113.5
57.5°	118.4	114.9	112.1	109.3	107.9	105.7	103.6	102.2	100.1	98.0	95.9
60°	104.3	101.5	98.0	95.2	93.8	92.3	89.5	87.4	85.3	83.2	81.1
62.5°	90.9	88.1	84.6	81.8	80.4	79.0	76.1	74.0	71.9	69.8	67.0
65°	79.0	76.1	73.3	70.5	69.1	67.7	64.9	62.0	59.9	57.8	55.0
67.5°	69.1	65.6	62.7	59.9	58.5	57.1	54.3	52.2	49.3	47.2	44.4
70°	58.5	55.7	53.6	50.8	49.3	47.9	45.1	42.3	40.2	38.1	35.2
72.5°	49.3	45.8	43.7	40.9	39.5	38.8	36.0	33.8	31.7	28.9	26.8
75°	39.5	36.7	33.8	31.7	30.3	29.6	26.8	24.7	22.6	20.4	18.3
77.5°	30.3	28.2	25.4	23.3	21.9	21.1	18.3	16.2	14.1	12.7	10.6
80°	22.6	19.7	18.3	16.2	15.5	14.1	12.7	10.6	9.2	7.0	5.6
82.5°	15.5	13.4	12.0	10.6	9.9	9.2	7.8	6.3	4.9	4.2	3.5
85°	8.5	7.0	6.3	5.6	4.9	4.9	4.2	3.5	2.8	2.1	1.4
87.5°	2.8	2.1	2.1	2.1	2.1	1.4	1.4	1.4	0.7	0.7	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: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	542.1	542.1	542.1	541.4	541.4	541.4	540.7	543.5	540.7	540.0	542.1
5°	541.4	540.0	540.0	540.0	540.0	539.3	538.6	540.0	537.9	537.2	537.2
7.5°	537.2	536.5	536.5	535.8	535.1	534.4	533.6	534.4	532.2	531.5	531.5
10°	537.9	536.5	536.5	534.4	532.9	530.8	528.7	529.4	526.6	524.5	524.5
12.5°	529.4	525.9	523.8	521.7	520.3	519.5	516.7	518.1	515.3	514.6	514.6
15°	510.4	506.2	502.6	501.2	501.2	499.8	497.7	500.5	499.1	499.8	503.3
17.5°	480.8	478.7	476.5	475.8	476.5	478.0	479.4	483.6	483.6	485.7	489.2
20°	454.7	453.3	454.7	454.7	455.4	458.2	461.0	464.6	466.0	468.1	473.0
22.5°	429.3	429.3	430.7	432.8	432.1	437.1	437.8	444.1	444.1	448.3	452.6
25°	404.6	404.6	406.1	406.8	408.2	411.0	413.8	418.7	420.1	424.4	427.9
27.5°	380.7	380.0	380.0	380.7	382.1	385.6	387.0	392.7	394.8	397.6	401.1
30°	353.9	353.2	354.6	356.0	355.3	358.8	360.9	365.2	366.6	369.4	372.2
32.5°	328.5	328.5	328.5	329.9	329.9	332.7	332.7	337.7	337.7	339.8	342.6
35°	302.4	302.4	303.1	303.8	304.5	305.2	305.9	308.8	309.5	310.2	311.6
37.5°	277.7	277.0	277.7	277.7	276.3	279.2	279.2	282.0	279.9	282.0	282.7
40°	252.4	252.4	251.7	251.7	251.7	253.1	251.7	253.8	252.4	253.8	253.1
42.5°	226.3	226.3	224.9	226.3	225.6	225.6	225.6	227.0	224.9	226.3	227.0
45°	200.2	199.5	199.5	198.8	198.8	198.8	199.5	199.5	198.8	200.2	200.2
47.5°	174.8	174.1	174.1	174.1	174.1	174.8	172.7	174.1	172.7	172.7	172.7
50°	153.0	152.3	151.6	150.9	150.2	150.2	149.4	149.4	148.0	147.3	146.6
52.5°	131.8	131.1	129.7	129.7	129.0	128.3	126.2	126.2	124.1	123.4	123.4
55°	112.8	110.7	110.0	108.6	108.6	107.2	105.7	104.3	102.2	100.8	100.8
57.5°	95.2	93.1	91.6	90.9	90.2	88.8	86.0	85.3	82.5	81.8	81.1
60°	79.7	77.5	75.4	74.0	73.3	71.2	68.4	67.0	65.6	63.4	61.3
62.5°	64.9	62.7	59.9	59.2	57.8	55.7	53.6	51.5	50.1	47.9	46.5
65°	52.2	50.1	47.9	46.5	45.1	43.0	40.9	38.8	37.4	36.7	36.0
67.5°	42.3	39.5	37.4	36.7	35.2	33.8	31.7	31.0	29.6	29.6	29.6
70°	33.1	31.0	28.9	28.2	27.5	26.1	24.7	24.7	24.7	24.7	24.7
72.5°	24.7	23.3	21.1	20.4	19.7	19.0	17.6	18.3	17.6	17.6	17.6
75°	15.5	14.1	12.7	12.0	11.3	10.6	9.9	9.2	8.5	7.8	7.8
77.5°	8.5	7.0	6.3	5.6	5.6	4.9	4.2	4.2	3.5	3.5	3.5
80°	4.9	4.2	3.5	2.8	2.8	2.1	2.1	2.1	2.1	1.4	1.4
82.5°	2.8	2.1	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
85°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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: P252354

CATALOG NUMBER: LD6B15D010 EU6B10209024 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	538.6	540.7	538.6	540.7	540.7	540.7	540.7	538.6
5°	535.1	536.5	534.4	535.8	536.5	535.8	535.8	533.6
7.5°	528.7	530.1	528.0	530.1	530.8	530.1	529.4	528.0
10°	522.4	523.1	521.0	522.4	523.8	523.8	523.1	521.0
12.5°	512.5	514.6	512.5	513.9	515.3	516.0	516.0	513.9
15°	501.2	504.7	503.3	505.4	507.6	508.3	508.3	507.6
17.5°	489.9	493.5	491.3	494.9	497.0	498.4	499.1	497.7
20°	473.7	478.0	476.5	479.4	482.2	484.3	484.3	482.2
22.5°	452.6	458.2	457.5	459.6	463.2	463.9	465.3	463.9
25°	429.3	433.5	432.8	435.0	439.2	439.2	439.9	439.9
27.5°	402.5	406.8	406.1	407.5	410.3	411.0	411.7	410.3
30°	373.6	375.7	375.7	377.9	380.0	380.7	380.7	378.6
32.5°	341.9	344.7	346.1	345.4	347.5	348.9	348.2	348.2
35°	313.0	313.7	314.4	315.1	315.8	317.2	315.8	315.1
37.5°	282.0	284.1	282.7	284.1	285.5	284.8	284.1	284.1
40°	253.8	254.5	253.1	254.5	255.2	255.2	255.2	253.8
42.5°	225.6	227.0	225.6	227.0	227.0	227.0	227.0	226.3
45°	197.4	198.8	198.8	199.5	199.5	198.8	198.8	198.8
47.5°	171.3	172.7	171.3	172.7	173.4	172.0	172.0	172.0
50°	146.6	145.9	145.9	146.6	146.6	146.6	146.6	145.9
52.5°	121.3	122.0	122.0	122.0	122.7	122.0	122.7	122.7
55°	99.4	99.4	99.4	100.1	99.4	99.4	100.1	100.8
57.5°	79.7	79.0	78.2	78.2	79.0	78.2	78.2	78.2
60°	61.3	60.6	59.9	59.9	59.9	59.9	59.9	59.2
62.5°	45.8	45.8	45.8	46.5	46.5	46.5	46.5	47.2
65°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	37.4
67.5°	29.6	29.6	29.6	30.3	30.3	30.3	30.3	30.3
70°	24.7	24.7	25.4	24.7	25.4	25.4	25.4	25.4
72.5°	16.9	16.9	16.9	16.9	16.9	16.2	16.9	16.2
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)