

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: P252359

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252359
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 EU6B10209050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1154.9 lumens
Efficiency: N/A
Efficacy: 80.3 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

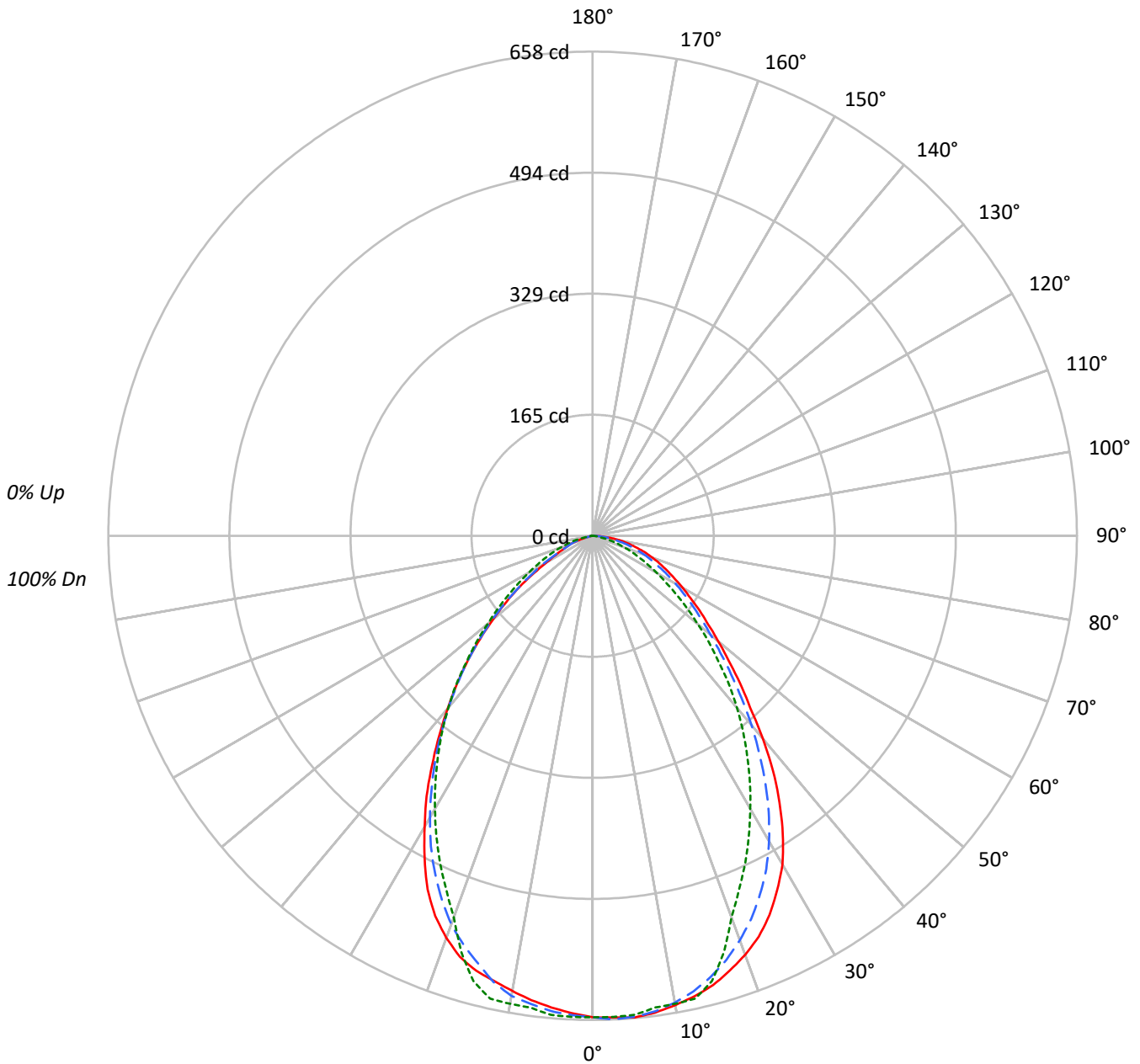
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	42693	42693	42693
5°	43027	42804	42136
10°	42902	42789	41610
15°	42707	42308	41329
20°	42073	38296	40358
25°	40931	35301	38174
30°	38864	32273	34382
35°	35266	29174	30257
40°	30617	25984	26061
45°	26111	22346	22116
50°	22603	18888	17853
55°	20201	15753	13820
60°	18411	13087	9316
65°	17182	10760	6947
70°	16366	8755	5837
75°	15427	6201	1916
80°	14690	3193	639
85°	12052	1871	0



TEST NUMBER: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	5.4
10°-20°	172.8	15.0
20°-30°	238.6	20.7
30°-40°	242.8	21.0
40°-50°	195.1	16.9
50°-60°	129.7	11.2
60°-70°	73.9	6.4
70°-80°	33.2	2.9
80°-90°	7.0	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°	473.2	41.0
0°-40°	716.0	62.0
0°-60°	1040.9	90.1
0°-90°	1154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	654	654	654	654	654	
5°	657	656	654	648	643	62
15°	632	620	626	602	612	178
25°	569	538	490	506	530	261
35°	443	409	366	373	380	275
45°	283	266	242	240	240	219
55°	178	166	138	123	122	160
65°	111	99	70	45	45	111
75°	61	51	25	10	8	65
85°	16	11	2	1	0	19
90°	0	0	0	0	0	



TEST NUMBER: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	655.3	658.7	657.8	657.0	657.8	657.0	655.3	655.3	653.6	653.6	657.8
5°	657.0	658.7	657.8	657.0	657.0	657.8	654.4	654.4	652.7	651.9	656.1
7.5°	653.6	656.1	654.4	654.4	653.6	654.4	651.0	651.0	648.5	647.6	651.9
10°	647.6	651.0	649.3	649.3	649.3	647.6	645.9	645.1	642.5	641.7	644.2
12.5°	640.8	643.4	642.5	640.8	640.8	640.8	637.4	636.6	633.2	631.5	634.0
15°	632.3	634.0	633.2	632.3	630.6	630.6	627.2	625.5	622.1	618.7	620.4
17.5°	619.6	622.1	620.4	619.6	617.0	617.0	613.6	611.9	606.8	603.4	604.3
20°	606.0	606.8	606.0	604.3	601.7	600.9	597.5	594.1	589.8	585.6	584.7
22.5°	589.8	590.7	588.1	586.4	583.9	583.0	578.8	576.2	569.4	564.3	563.5
25°	568.6	569.4	569.4	565.2	563.5	561.8	557.5	553.3	547.3	540.5	538.0
27.5°	543.1	545.6	543.9	539.7	536.3	535.4	531.2	527.8	520.1	514.2	510.8
30°	515.9	515.0	514.2	511.6	506.5	505.7	501.4	497.2	491.2	483.6	479.4
32.5°	481.1	481.1	480.2	477.7	472.6	470.9	467.5	462.4	455.6	449.6	445.4
35°	442.8	443.7	442.8	437.7	434.3	432.6	430.9	425.0	419.0	412.2	408.8
37.5°	402.9	400.3	401.2	396.9	392.7	394.4	389.3	386.7	379.9	374.8	371.4
40°	359.5	361.2	357.8	356.1	353.6	351.0	351.0	346.8	343.4	337.4	335.7
42.5°	317.0	319.6	318.7	317.0	313.6	314.5	310.2	308.5	304.3	301.7	299.2
45°	283.0	283.0	283.0	281.3	280.5	278.8	276.2	273.7	271.1	267.7	266.0
47.5°	249.9	249.9	250.7	249.0	247.3	246.5	244.8	244.8	240.5	237.1	235.4
50°	222.7	222.7	222.7	221.0	219.3	219.3	217.6	215.9	213.3	210.8	209.1
52.5°	198.0	198.0	198.0	196.3	195.5	194.6	193.8	192.9	189.5	187.8	186.1
55°	177.6	176.8	176.8	175.9	174.2	174.2	173.4	171.7	169.1	166.6	165.7
57.5°	157.2	158.1	157.2	157.2	155.5	155.5	153.8	153.0	150.4	148.7	147.0
60°	141.1	141.1	141.1	140.2	138.5	139.4	137.7	136.8	134.3	131.7	130.0
62.5°	124.9	125.8	125.8	124.9	123.2	123.2	122.4	121.5	119.0	116.4	113.9
65°	111.3	111.3	111.3	110.5	109.6	109.6	108.8	107.9	105.4	102.0	99.4
67.5°	98.6	97.7	97.7	97.7	96.9	96.0	95.2	94.3	91.8	89.2	85.8
70°	85.8	85.8	85.8	85.0	83.3	84.1	83.3	82.4	79.9	77.3	74.8
72.5°	73.9	73.9	73.1	72.2	72.2	71.4	71.4	70.5	68.0	64.6	62.0
75°	61.2	61.2	61.2	61.2	59.5	60.3	58.6	57.8	56.1	53.5	51.0
77.5°	50.1	50.1	50.1	49.3	48.4	48.4	47.6	46.7	44.2	42.5	39.1
80°	39.1	39.1	39.1	39.1	38.2	37.4	36.5	35.7	34.0	31.4	28.9
82.5°	28.9	28.9	28.0	28.0	28.0	27.2	26.3	25.5	23.8	22.1	20.4
85°	16.1	17.0	17.0	15.3	16.1	15.3	15.3	13.6	13.6	11.9	11.0
87.5°	5.9	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2	4.2	3.4
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: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	654.4	653.6	657.0	657.0	651.9	654.4	655.3	653.6	653.6	654.4	651.9
5°	652.7	651.0	654.4	655.3	650.2	652.7	653.6	651.9	652.7	653.6	650.2
7.5°	646.8	646.8	649.3	650.2	645.1	647.6	647.6	645.9	646.8	646.8	644.2
10°	640.8	638.3	640.8	640.8	636.6	637.4	639.1	638.3	641.7	645.9	645.9
12.5°	629.8	627.2	631.5	631.5	628.9	632.3	636.6	639.1	642.5	644.2	639.1
15°	616.2	617.0	624.7	630.6	628.1	633.2	637.4	635.7	631.5	626.4	618.7
17.5°	598.3	595.8	602.6	606.0	602.6	604.3	607.7	604.3	597.5	593.2	583.0
20°	577.9	571.1	571.1	569.4	563.5	563.5	562.6	556.7	554.1	551.6	547.3
22.5°	555.0	547.3	544.8	539.7	534.6	533.7	531.2	525.2	521.8	520.1	515.0
25°	528.6	521.8	517.6	512.5	504.8	503.1	500.6	494.6	492.9	490.4	486.1
27.5°	501.4	492.9	487.0	481.9	475.1	474.3	469.2	464.9	461.5	459.8	456.4
30°	470.0	460.7	456.4	449.6	444.5	442.8	438.6	432.6	430.1	428.4	425.8
32.5°	435.2	427.5	423.3	417.3	410.5	411.4	406.3	401.2	399.5	397.8	395.2
35°	401.2	393.5	388.4	383.3	379.1	377.4	374.0	369.7	367.2	366.3	364.6
37.5°	363.8	357.8	353.6	348.5	345.1	343.4	341.7	337.4	335.7	335.7	332.3
40°	327.2	322.1	318.7	316.2	311.9	311.1	309.4	306.8	306.0	305.1	302.6
42.5°	294.1	287.3	284.7	283.0	280.5	278.8	277.9	276.2	275.4	274.5	272.0
45°	262.6	256.7	254.1	252.4	249.9	249.0	248.2	245.6	243.9	242.2	241.4
47.5°	232.0	227.8	226.9	222.7	221.0	219.3	217.6	215.9	215.0	214.2	210.8
50°	205.7	203.1	198.9	196.3	194.6	193.8	190.4	187.8	187.0	186.1	183.6
52.5°	181.9	178.5	175.9	171.7	170.8	169.1	167.4	164.0	162.3	161.5	158.9
55°	160.6	158.1	154.7	151.3	148.7	147.9	145.3	141.9	140.2	138.5	136.8
57.5°	142.8	138.5	135.1	131.7	130.0	127.5	124.9	123.2	120.7	118.1	115.6
60°	125.8	122.4	118.1	114.7	113.0	111.3	107.9	105.4	102.8	100.3	97.7
62.5°	109.6	106.2	102.0	98.6	96.9	95.2	91.8	89.2	86.7	84.1	80.7
65°	95.2	91.8	88.4	85.0	83.3	81.6	78.2	74.8	72.2	69.7	66.3
67.5°	83.3	79.0	75.6	72.2	70.5	68.8	65.4	62.9	59.5	56.9	53.5
70°	70.5	67.1	64.6	61.2	59.5	57.8	54.4	51.0	48.4	45.9	42.5
72.5°	59.5	55.2	52.7	49.3	47.6	46.7	43.3	40.8	38.2	34.8	32.3
75°	47.6	44.2	40.8	38.2	36.5	35.7	32.3	29.7	27.2	24.6	22.1
77.5°	36.5	34.0	30.6	28.0	26.3	25.5	22.1	19.5	17.0	15.3	12.7
80°	27.2	23.8	22.1	19.5	18.7	17.0	15.3	12.7	11.0	8.5	6.8
82.5°	18.7	16.1	14.4	12.7	11.9	11.0	9.3	7.6	5.9	5.1	4.2
85°	10.2	8.5	7.6	6.8	5.9	5.9	5.1	4.2	3.4	2.5	1.7
87.5°	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8
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: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	653.6	653.6	653.6	652.7	652.7	652.7	651.9	655.3	651.9	651.0	653.6
5°	652.7	651.0	651.0	651.0	651.0	650.2	649.3	651.0	648.5	647.6	647.6
7.5°	647.6	646.8	646.8	645.9	645.1	644.2	643.4	644.2	641.7	640.8	640.8
10°	648.5	646.8	646.8	644.2	642.5	640.0	637.4	638.3	634.9	632.3	632.3
12.5°	638.3	634.0	631.5	628.9	627.2	626.4	623.0	624.7	621.3	620.4	620.4
15°	615.3	610.2	606.0	604.3	604.3	602.6	600.0	603.4	601.7	602.6	606.8
17.5°	579.6	577.1	574.5	573.7	574.5	576.2	577.9	583.0	583.0	585.6	589.8
20°	548.2	546.5	548.2	548.2	549.0	552.4	555.8	560.1	561.8	564.3	570.3
22.5°	517.6	517.6	519.3	521.8	521.0	526.9	527.8	535.4	535.4	540.5	545.6
25°	487.8	487.8	489.5	490.4	492.1	495.5	498.9	504.8	506.5	511.6	515.9
27.5°	459.0	458.1	458.1	459.0	460.7	464.9	466.6	473.4	476.0	479.4	483.6
30°	426.7	425.8	427.5	429.2	428.4	432.6	435.2	440.3	442.0	445.4	448.8
32.5°	396.1	396.1	396.1	397.8	397.8	401.2	401.2	407.1	407.1	409.7	413.1
35°	364.6	364.6	365.5	366.3	367.2	368.0	368.9	372.3	373.1	374.0	375.7
37.5°	334.9	334.0	334.9	334.9	333.2	336.6	336.6	340.0	337.4	340.0	340.8
40°	304.3	304.3	303.4	303.4	303.4	305.1	303.4	306.0	304.3	306.0	305.1
42.5°	272.8	272.8	271.1	272.8	272.0	272.0	272.0	273.7	271.1	272.8	273.7
45°	241.4	240.5	240.5	239.7	239.7	239.7	240.5	240.5	239.7	241.4	241.4
47.5°	210.8	209.9	209.9	209.9	209.9	210.8	208.2	209.9	208.2	208.2	208.2
50°	184.4	183.6	182.7	181.9	181.0	181.0	180.2	180.2	178.5	177.6	176.8
52.5°	158.9	158.1	156.4	156.4	155.5	154.7	152.1	152.1	149.6	148.7	148.7
55°	136.0	133.4	132.6	130.9	130.9	129.2	127.5	125.8	123.2	121.5	121.5
57.5°	114.7	112.2	110.5	109.6	108.8	107.1	103.7	102.8	99.4	98.6	97.7
60°	96.0	93.5	90.9	89.2	88.4	85.8	82.4	80.7	79.0	76.5	73.9
62.5°	78.2	75.6	72.2	71.4	69.7	67.1	64.6	62.0	60.3	57.8	56.1
65°	62.9	60.3	57.8	56.1	54.4	51.8	49.3	46.7	45.0	44.2	43.3
67.5°	51.0	47.6	45.0	44.2	42.5	40.8	38.2	37.4	35.7	35.7	35.7
70°	39.9	37.4	34.8	34.0	33.1	31.4	29.7	29.7	29.7	29.7	29.7
72.5°	29.7	28.0	25.5	24.6	23.8	22.9	21.2	22.1	21.2	21.2	21.2
75°	18.7	17.0	15.3	14.4	13.6	12.7	11.9	11.0	10.2	9.3	9.3
77.5°	10.2	8.5	7.6	6.8	6.8	5.9	5.1	5.1	4.2	4.2	4.2
80°	5.9	5.1	4.2	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	3.4	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
85°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P252359

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	649.3	651.9	649.3	651.9	651.9	651.9	651.9	649.3
5°	645.1	646.8	644.2	645.9	646.8	645.9	645.9	643.4
7.5°	637.4	639.1	636.6	639.1	640.0	639.1	638.3	636.6
10°	629.8	630.6	628.1	629.8	631.5	631.5	630.6	628.1
12.5°	617.9	620.4	617.9	619.6	621.3	622.1	622.1	619.6
15°	604.3	608.5	606.8	609.4	611.9	612.8	612.8	611.9
17.5°	590.7	594.9	592.4	596.6	599.2	600.9	601.7	600.0
20°	571.1	576.2	574.5	577.9	581.3	583.9	583.9	581.3
22.5°	545.6	552.4	551.6	554.1	558.4	559.2	560.9	559.2
25°	517.6	522.7	521.8	524.4	529.5	529.5	530.3	530.3
27.5°	485.3	490.4	489.5	491.2	494.6	495.5	496.3	494.6
30°	450.5	453.0	453.0	455.6	458.1	459.0	459.0	456.4
32.5°	412.2	415.6	417.3	416.5	419.0	420.7	419.9	419.9
35°	377.4	378.2	379.1	379.9	380.8	382.5	380.8	379.9
37.5°	340.0	342.5	340.8	342.5	344.2	343.4	342.5	342.5
40°	306.0	306.8	305.1	306.8	307.7	307.7	307.7	306.0
42.5°	272.0	273.7	272.0	273.7	273.7	273.7	273.7	272.8
45°	238.0	239.7	239.7	240.5	240.5	239.7	239.7	239.7
47.5°	206.5	208.2	206.5	208.2	209.1	207.4	207.4	207.4
50°	176.8	175.9	175.9	176.8	176.8	176.8	176.8	175.9
52.5°	146.2	147.0	147.0	147.0	147.9	147.0	147.9	147.9
55°	119.8	119.8	119.8	120.7	119.8	119.8	120.7	121.5
57.5°	96.0	95.2	94.3	94.3	95.2	94.3	94.3	94.3
60°	73.9	73.1	72.2	72.2	72.2	72.2	72.2	71.4
62.5°	55.2	55.2	55.2	56.1	56.1	56.1	56.1	56.9
65°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	45.0
67.5°	35.7	35.7	35.7	36.5	36.5	36.5	36.5	36.5
70°	29.7	29.7	30.6	29.7	30.6	30.6	30.6	30.6
72.5°	20.4	20.4	20.4	20.4	20.4	19.5	20.4	19.5
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)