

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: PORTFOLIO

Report Number: P252554

Luminaire Tested: **LE_6B10D010 EC6B10209050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 1153.7 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

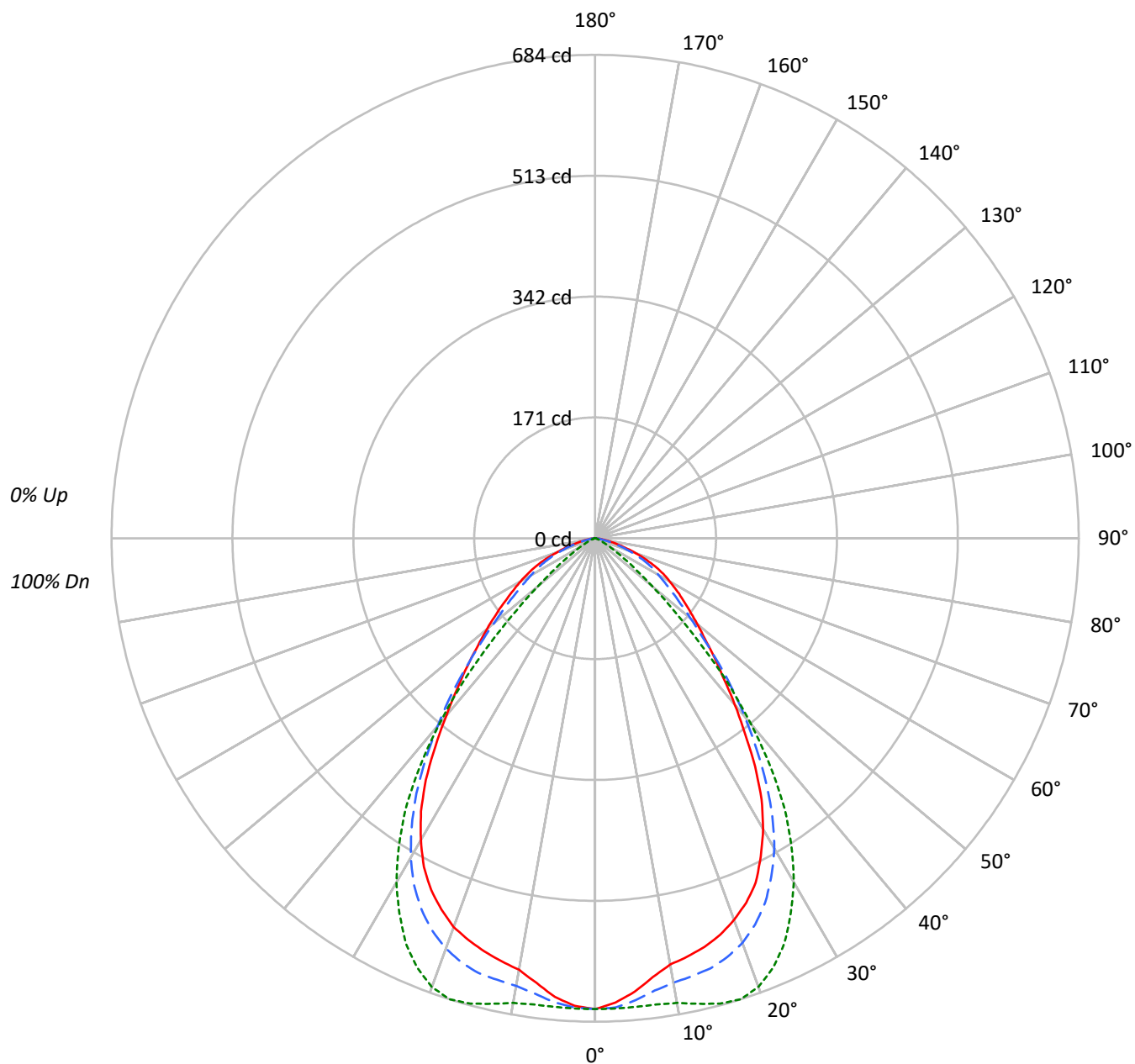
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

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	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43457	43457	43457
5°	42162	43577	42667
10°	40556	44227	41067
15°	40417	46030	40876
20°	39886	46891	40629
25°	38692	45567	39527
30°	35791	42345	37132
35°	31396	37226	33243
40°	26163	29178	27866
45°	22033	19265	23518
50°	19071	10556	20249
55°	17266	5596	17687
60°	15867	2923	15867
65°	14372	1544	14032
70°	11617	877	10720
75°	7965	555	7360
80°	5222	301	4659
85°	3443	599	2919



TEST NUMBER: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	5.4
10°-20°	179.6	15.6
20°-30°	265.4	23.0
30°-40°	268.0	23.2
40°-50°	184.8	16.0
50°-60°	106.1	9.2
60°-70°	61.8	5.4
70°-80°	22.5	2.0
80°-90°	3.4	0.3
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°	507.1	44.0
0°-40°	775.1	67.2
0°-60°	1066.0	92.4
0°-90°	1153.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	666	666	666	666	666	
5°	644	656	665	659	652	60
15°	598	630	682	637	605	169
25°	538	569	633	581	549	245
35°	394	421	467	440	417	245
45°	239	242	209	257	255	186
55°	152	133	49	139	156	137
65°	93	78	10	78	91	91
75°	32	25	2	25	29	36
85°	5	2	1	3	4	6
90°	0	0	0	0	0	



TEST NUMBER: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1
2.5°	657.6	658.4	659.1	658.4	659.1	662.2	660.0	661.5	661.5	662.2	664.6
5°	643.8	643.8	645.4	644.5	646.9	650.0	647.6	650.0	650.8	652.2	656.1
7.5°	626.1	626.1	626.9	626.9	629.9	633.0	631.5	634.5	637.6	640.8	645.4
10°	612.2	613.8	613.8	614.5	617.6	621.5	620.6	624.5	627.6	632.2	638.4
12.5°	606.0	606.9	606.9	608.4	611.5	615.2	614.5	618.4	623.0	628.4	634.5
15°	598.4	599.9	599.1	600.6	603.8	607.6	606.9	610.6	616.0	621.5	629.9
17.5°	588.4	589.1	589.9	589.9	593.0	596.0	596.0	599.9	606.0	612.2	621.5
20°	574.5	576.0	576.0	576.8	579.1	583.8	583.0	586.8	593.0	599.1	609.1
22.5°	558.2	559.1	559.1	559.9	563.8	566.0	566.8	569.9	575.2	582.1	591.4
25°	537.5	538.2	537.5	539.9	541.4	546.0	544.5	548.2	554.5	559.9	569.1
27.5°	507.5	509.0	509.0	509.8	513.6	517.5	517.5	521.4	526.8	530.6	539.9
30°	475.1	477.5	475.1	479.0	480.5	483.6	485.9	488.2	492.9	498.2	506.8
32.5°	438.1	437.4	438.1	439.8	444.4	446.6	448.1	450.5	455.1	459.8	466.6
35°	394.2	395.9	396.6	399.6	399.6	403.5	404.2	405.9	412.8	415.9	421.2
37.5°	348.1	349.6	350.4	351.9	355.0	356.5	358.9	361.1	365.8	371.1	374.2
40°	307.2	307.2	308.0	309.6	311.9	312.6	315.0	318.0	321.1	325.8	328.9
42.5°	268.8	269.5	268.8	270.2	272.6	275.8	274.9	278.8	279.5	282.6	284.9
45°	238.8	238.8	237.1	238.8	238.8	241.8	241.0	242.6	241.8	243.4	241.8
47.5°	210.2	211.0	210.2	211.0	211.0	211.0	211.8	210.2	211.0	208.8	204.1
50°	187.9	188.6	187.1	187.9	187.1	186.4	187.1	184.9	184.0	181.0	176.4
52.5°	168.6	167.9	167.1	167.1	167.1	166.4	165.6	163.2	161.0	157.9	152.5
55°	151.8	150.9	150.1	150.1	148.6	147.9	147.9	145.5	143.2	139.4	133.2
57.5°	136.2	135.5	134.8	134.8	134.0	132.5	132.5	130.1	127.1	122.5	117.0
60°	121.6	121.6	121.6	120.9	120.9	119.4	119.4	117.0	114.0	109.4	103.2
62.5°	108.6	107.8	107.8	107.8	107.8	107.0	106.2	104.8	101.6	97.0	91.6
65°	93.1	93.1	93.1	93.1	92.4	92.4	92.4	90.1	88.5	84.0	78.5
67.5°	76.2	76.2	76.2	76.2	75.5	76.2	76.2	74.8	73.1	68.5	63.9
70°	60.9	60.1	59.2	60.1	59.2	59.2	60.1	58.5	57.8	53.9	49.2
72.5°	44.6	45.4	44.6	44.6	44.6	43.9	44.6	43.9	42.4	39.2	36.2
75°	31.6	32.4	32.4	31.6	31.6	31.6	30.8	30.8	29.2	27.0	25.4
77.5°	21.5	21.5	21.5	21.5	20.8	20.8	20.8	20.0	19.2	17.8	16.1
80°	13.9	13.9	13.9	13.9	13.1	13.1	13.1	12.4	12.4	10.8	9.2
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	7.8	7.8	6.9	6.1	5.4
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.1	2.2
87.5°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5
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: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1
2.5°	663.0	663.8	663.8	663.8	666.1	666.9	664.6	662.2	666.9	666.1	667.6
5°	655.4	657.6	659.1	660.0	662.2	663.8	661.5	660.8	664.6	665.4	666.1
7.5°	646.1	650.0	653.8	655.4	658.4	660.0	659.1	659.1	663.8	665.4	665.4
10°	639.9	645.4	650.0	653.8	657.6	660.0	660.0	660.8	666.1	667.6	669.2
12.5°	638.4	645.4	651.5	656.9	660.0	663.8	664.6	666.9	672.2	674.6	674.6
15°	634.5	643.8	651.5	658.4	663.0	667.6	669.2	673.9	680.0	681.5	683.0
17.5°	627.6	636.9	646.1	654.6	660.8	664.6	669.2	673.9	681.5	683.9	684.6
20°	615.2	626.1	635.4	643.8	650.0	655.4	660.0	665.4	672.2	675.4	676.1
22.5°	596.8	607.6	616.9	626.1	632.2	636.9	641.5	647.6	654.6	657.6	657.6
25°	574.5	584.5	594.5	601.4	607.6	613.0	615.2	622.2	629.1	633.0	633.0
27.5°	546.0	555.2	564.5	572.1	576.0	580.6	584.5	590.6	596.0	599.1	602.2
30°	509.8	519.0	527.5	535.2	539.9	544.5	548.2	552.9	558.2	562.1	562.9
32.5°	470.5	478.2	486.8	494.4	499.0	500.5	504.4	509.0	513.6	516.8	517.5
35°	427.4	432.8	438.1	445.1	449.8	449.8	453.6	456.6	460.5	467.4	465.9
37.5°	376.6	384.2	388.1	390.4	393.5	396.6	397.4	401.2	405.9	407.4	409.6
40°	328.9	331.1	333.5	333.5	336.5	336.5	336.5	337.2	341.9	342.6	345.8
42.5°	281.1	281.1	278.8	276.5	277.2	276.5	272.6	272.6	274.9	278.0	278.0
45°	236.4	231.0	224.1	218.8	214.9	213.2	208.8	208.8	207.9	208.8	211.8
47.5°	198.6	189.5	177.9	167.1	163.2	160.1	153.2	150.1	148.6	149.4	150.9
50°	167.1	157.1	144.0	130.9	124.0	120.1	111.6	106.2	105.5	104.0	107.0
52.5°	144.0	131.6	117.9	102.4	95.5	89.4	80.1	75.5	72.4	72.4	73.1
55°	124.0	110.9	95.5	80.1	73.1	68.5	59.2	53.1	50.0	49.2	51.6
57.5°	107.0	94.8	79.4	63.9	57.0	51.6	42.4	37.0	34.6	33.1	33.9
60°	94.0	81.6	66.2	51.6	45.4	39.2	31.6	25.4	22.4	22.4	23.1
62.5°	81.6	70.1	56.2	42.4	37.0	31.6	23.1	17.8	15.4	14.6	15.4
65°	69.2	58.5	47.0	35.4	30.0	25.4	18.5	13.9	10.8	10.0	10.8
67.5°	56.2	47.8	37.8	28.5	23.9	20.0	13.9	10.0	7.8	6.9	7.8
70°	43.9	36.2	28.5	20.8	17.8	14.6	10.0	7.8	5.4	4.6	5.4
72.5°	31.6	26.1	20.0	14.6	12.4	10.0	6.9	5.4	3.9	3.1	3.9
75°	21.5	17.8	13.1	9.2	7.8	6.9	4.6	3.1	2.2	2.2	2.2
77.5°	13.9	10.8	8.5	6.1	4.6	3.9	2.2	1.5	1.5	1.5	1.5
80°	7.8	6.1	4.6	3.1	2.2	2.2	1.5	1.5	0.8	0.8	0.8
82.5°	4.6	3.1	2.2	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.2	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1
2.5°	664.6	665.4	663.0	666.1	663.8	666.9	666.9	663.8	664.6	663.0	666.1
5°	663.0	663.0	661.5	663.8	660.8	663.8	663.0	657.6	659.1	656.1	659.1
7.5°	663.0	661.5	659.1	661.5	657.6	660.0	656.9	651.5	650.0	646.1	646.1
10°	665.4	663.0	660.0	660.8	656.9	657.6	653.0	645.4	643.0	638.4	636.9
12.5°	670.8	668.4	663.8	665.4	660.0	660.0	653.8	644.5	639.9	633.8	632.2
15°	678.5	674.6	669.2	670.0	664.6	661.5	653.8	643.0	636.9	628.4	626.1
17.5°	680.0	676.1	669.2	669.2	662.2	658.4	649.1	636.9	629.1	620.6	616.0
20°	671.5	667.6	660.0	659.1	653.0	647.6	637.6	625.2	617.6	608.4	604.5
22.5°	653.8	649.1	642.2	641.5	635.4	632.2	621.5	609.1	601.4	592.2	589.1
25°	627.6	625.2	618.4	617.6	612.2	608.4	599.1	587.6	580.6	571.4	568.4
27.5°	596.8	594.5	587.6	587.6	581.4	579.1	570.6	559.9	554.5	546.0	542.1
30°	559.9	556.8	552.9	552.1	546.8	544.5	536.8	526.8	521.4	514.4	512.9
32.5°	516.0	513.6	511.4	510.5	505.1	502.9	497.5	487.5	482.9	476.6	474.4
35°	465.1	463.6	461.2	460.5	458.2	455.9	450.5	442.8	440.5	435.9	433.5
37.5°	406.6	408.1	406.6	406.6	404.2	405.0	400.5	395.9	393.5	390.4	388.9
40°	343.5	346.5	348.9	348.9	348.1	351.1	350.4	346.5	345.8	344.2	343.5
42.5°	279.5	281.1	285.8	288.8	288.0	295.8	296.5	299.5	301.9	300.4	301.1
45°	212.5	217.1	223.4	226.4	230.2	240.2	245.6	251.9	257.2	260.2	259.5
47.5°	153.2	158.6	165.6	170.1	177.1	189.5	203.2	211.0	218.8	222.5	226.4
50°	110.9	116.2	124.8	131.6	136.2	153.2	167.9	177.9	186.4	191.8	195.6
52.5°	77.8	84.0	93.1	99.4	106.2	122.5	139.4	150.9	160.1	167.1	171.0
55°	53.9	60.9	69.2	75.5	83.1	100.1	116.2	128.6	138.6	144.8	149.4
57.5°	37.8	43.9	52.4	57.8	65.5	81.6	97.8	110.1	120.1	126.2	131.6
60°	25.4	31.6	40.0	45.4	51.6	67.8	82.4	95.5	104.8	110.9	116.2
62.5°	17.8	23.1	31.6	37.0	42.4	56.2	70.1	81.6	90.9	97.8	102.4
65°	13.9	18.5	25.4	30.0	35.4	47.0	58.5	68.5	77.8	84.8	87.8
67.5°	10.0	14.6	20.0	23.9	27.8	37.8	47.8	55.5	63.9	69.2	73.1
70°	6.9	10.0	14.6	17.8	20.8	28.5	36.2	43.1	49.2	53.1	56.2
72.5°	5.4	6.9	10.0	12.4	14.6	20.0	26.1	31.6	36.2	39.2	42.4
75°	3.1	4.6	6.9	8.5	10.0	13.9	17.8	21.5	24.6	27.0	28.5
77.5°	1.5	2.2	3.9	4.6	6.1	8.5	11.5	13.9	16.1	17.8	19.2
80°	1.5	1.5	2.2	2.2	3.1	4.6	6.1	7.8	9.2	10.8	11.5
82.5°	0.8	0.8	1.5	1.5	1.5	2.2	3.1	4.6	5.4	6.1	6.9
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.2	3.1	3.9	3.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	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: P252554

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	666.1	666.1	666.1	666.1	666.1	666.1	666.1	666.1
2.5°	663.8	665.4	664.6	666.1	663.8	663.0	664.6	662.2
5°	655.4	656.1	655.4	655.4	653.8	652.2	653.8	651.5
7.5°	642.2	642.2	639.9	639.9	636.9	635.4	635.4	634.5
10°	631.5	629.1	626.9	627.6	623.0	621.5	620.6	619.9
12.5°	626.1	624.5	620.6	620.6	616.0	614.5	613.8	613.0
15°	619.9	616.9	613.8	613.0	609.1	607.6	606.9	605.2
17.5°	609.1	606.9	603.0	603.0	599.1	598.4	596.8	596.0
20°	597.6	594.5	591.4	591.4	586.8	586.8	584.5	585.2
22.5°	581.4	579.1	576.0	576.0	572.1	571.4	569.1	568.4
25°	562.1	559.1	556.8	556.0	552.9	551.4	550.6	549.1
27.5°	536.8	534.4	532.1	530.6	526.8	526.0	523.6	524.4
30°	505.1	503.6	502.9	501.4	496.8	495.1	495.1	492.9
32.5°	470.5	468.2	466.6	464.4	460.5	459.8	457.4	458.2
35°	428.1	425.1	422.8	423.5	418.9	418.1	416.6	417.4
37.5°	384.2	381.2	378.1	377.4	373.5	373.5	371.1	371.1
40°	338.9	335.8	334.2	334.2	329.6	330.4	328.0	327.2
42.5°	298.0	295.0	294.1	293.4	291.1	290.4	288.0	288.8
45°	259.5	258.8	258.8	257.2	254.9	254.1	254.9	254.9
47.5°	225.6	226.4	225.6	225.6	224.1	225.6	224.1	224.9
50°	197.1	198.6	198.6	198.6	197.9	198.6	198.6	199.5
52.5°	173.2	175.6	174.8	175.6	174.8	176.4	175.6	176.4
55°	152.5	154.0	154.8	155.5	155.5	155.5	155.5	155.5
57.5°	133.2	135.5	136.2	137.1	137.1	138.6	137.1	137.1
60°	117.9	120.1	120.9	121.6	121.6	122.5	120.9	121.6
62.5°	104.0	106.2	106.2	107.0	107.0	107.0	105.5	106.2
65°	90.1	90.9	91.6	91.6	90.9	90.9	90.1	90.9
67.5°	74.8	75.5	74.8	74.8	73.9	73.9	72.4	73.1
70°	57.8	57.8	58.5	57.8	57.0	57.8	57.0	56.2
72.5°	43.1	43.1	43.1	42.4	42.4	41.6	42.4	42.4
75°	29.2	29.2	30.0	30.0	30.0	30.0	29.2	29.2
77.5°	19.2	19.2	19.2	19.2	20.0	19.2	19.2	19.2
80°	12.4	12.4	13.1	13.1	12.4	12.4	12.4	12.4
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
85°	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.9
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5
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)