

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: P252671

Luminaire Tested: **LE_6B15D010 EC6B10209050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252671
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: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1490.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

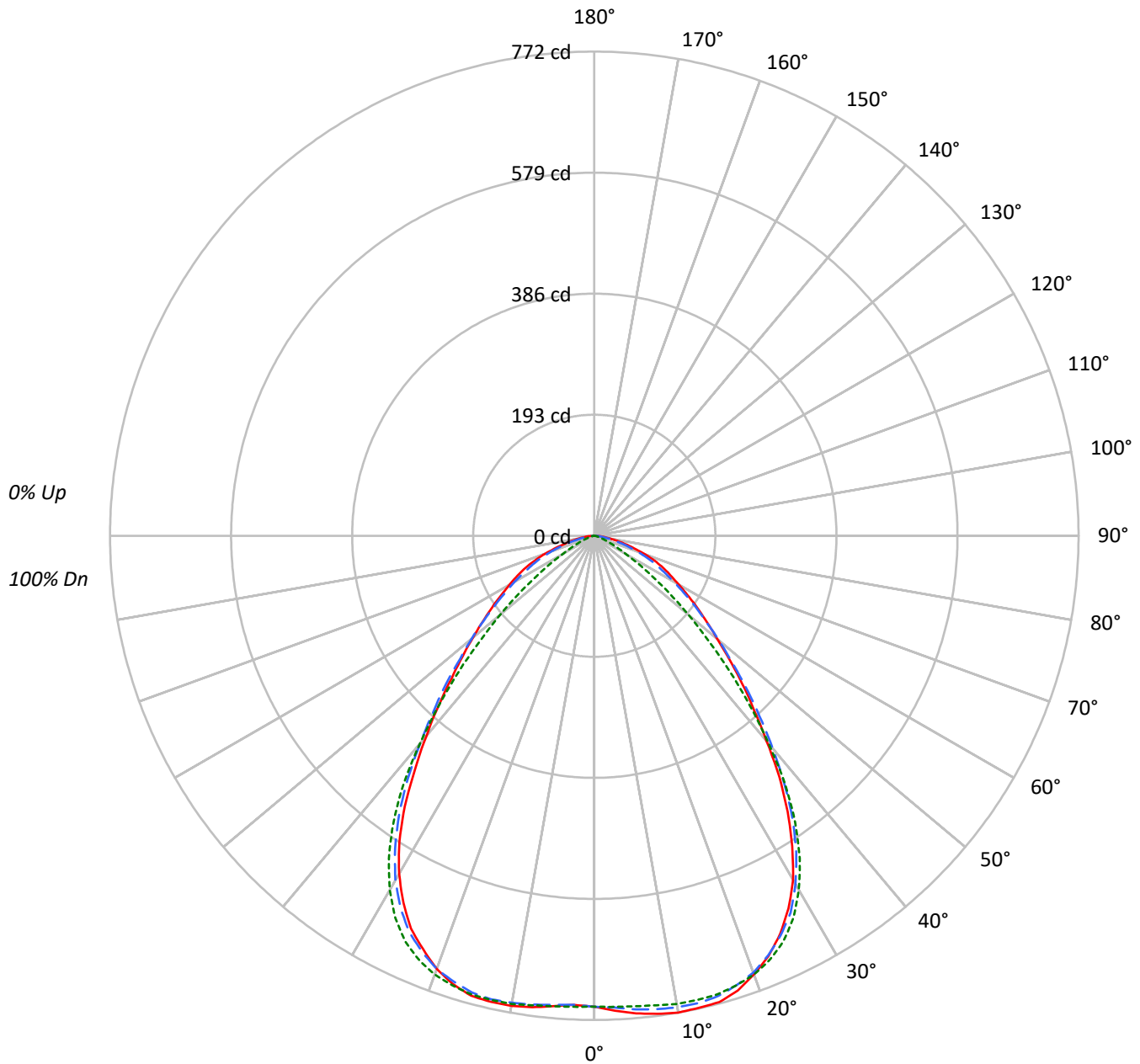
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

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	107	104	101	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	44	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48983	48983	48983
5°	50067	49307	49307
10°	51136	50222	50427
15°	51994	51136	51278
20°	51682	51682	51015
25°	50447	51361	49756
30°	47754	49117	46872
35°	42785	44481	41941
40°	36357	36800	35446
45°	30761	28122	29691
50°	25973	19832	25658
55°	22817	12796	22578
60°	20225	7620	20368
65°	18679	4600	18679
70°	16214	2632	15813
75°	12856	1613	12049
80°	9580	1165	9167
85°	8683	749	7935



TEST NUMBER: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	4.9
10°-20°	213.9	14.4
20°-30°	321.7	21.6
30°-40°	338.2	22.7
40°-50°	252.7	17.0
50°-60°	157.3	10.6
60°-70°	89.5	6.0
70°-80°	36.8	2.5
80°-90°	7.6	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°	607.9	40.8
0°-40°	946.1	63.5
0°-60°	1356.1	91.0
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	764	758	753	751	753	73
15°	770	760	757	754	759	216
25°	701	703	714	698	691	321
35°	537	551	558	543	527	333
45°	333	341	305	334	322	258
55°	201	196	112	193	198	180
65°	121	108	30	108	121	119
75°	51	40	6	39	48	55
85°	12	7	1	6	11	13
90°	0	0	0	0	0	



TEST NUMBER: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	758.1	757.1	758.1	756.0	755.0	755.0	756.0	753.9	752.9	753.9	752.9
5°	764.5	762.4	763.4	762.4	760.2	760.2	761.2	758.1	758.1	759.2	758.1
7.5°	768.8	768.8	768.8	766.6	765.5	764.5	766.6	763.4	762.4	762.4	761.2
10°	771.9	770.9	771.9	769.8	767.6	766.6	768.8	766.6	764.5	766.6	763.4
12.5°	770.9	770.9	770.9	769.8	767.6	766.6	768.8	765.5	764.5	765.5	763.4
15°	769.8	766.6	767.6	766.6	763.4	763.4	764.5	761.2	759.2	762.4	760.2
17.5°	760.2	758.1	759.2	757.1	755.0	753.9	755.0	753.9	751.8	753.9	751.8
20°	744.4	744.4	745.4	743.2	741.1	740.1	742.2	740.1	738.0	741.1	741.1
22.5°	725.2	725.2	725.2	724.1	723.1	723.1	723.1	722.0	721.0	723.1	724.1
25°	700.8	699.8	700.8	701.9	700.8	699.8	700.8	700.8	698.6	702.9	702.9
27.5°	670.0	670.0	672.1	671.0	671.0	670.0	672.1	672.1	671.0	674.2	677.4
30°	633.9	631.8	633.9	633.9	635.0	635.0	636.0	636.0	636.0	639.2	641.4
32.5°	587.1	588.2	591.4	590.4	589.2	592.5	592.5	594.6	595.6	597.8	598.9
35°	537.2	538.4	538.4	539.4	541.5	539.4	544.8	543.6	544.8	549.0	551.1
37.5°	484.1	481.0	486.2	484.1	485.2	485.2	487.4	488.4	491.6	496.9	496.9
40°	426.9	427.9	430.0	431.1	432.1	432.1	432.1	435.4	436.4	442.8	441.8
42.5°	377.0	377.0	379.1	380.1	380.1	380.1	380.1	383.2	385.4	387.5	389.6
45°	333.4	330.2	332.4	332.4	334.5	333.4	335.5	337.6	338.8	341.9	340.9
47.5°	292.0	290.9	292.0	293.0	292.0	293.0	294.1	295.1	296.2	296.2	296.2
50°	255.9	255.9	257.0	258.0	258.0	258.0	258.0	259.1	259.1	261.2	259.1
52.5°	226.1	227.2	227.2	226.1	227.2	227.2	228.2	228.2	227.2	227.2	224.0
55°	200.6	199.6	200.6	199.6	200.6	200.6	199.6	199.6	198.5	197.5	196.4
57.5°	176.2	176.2	176.2	176.2	175.2	176.2	175.2	174.1	174.1	172.0	168.9
60°	155.0	155.0	155.0	155.0	155.0	154.0	155.0	154.0	151.9	149.8	145.5
62.5°	137.0	135.9	137.0	135.9	135.9	134.9	134.9	133.8	131.6	129.5	125.2
65°	121.0	122.1	121.0	121.0	120.0	118.9	118.9	117.9	114.6	112.5	108.2
67.5°	104.0	103.0	103.0	103.0	101.9	101.9	101.9	99.8	97.6	94.5	90.2
70°	85.0	85.0	85.0	83.9	83.9	82.9	82.9	81.8	79.6	77.5	72.2
72.5°	66.9	66.9	66.9	64.8	65.9	64.8	64.8	62.6	61.6	58.4	55.2
75°	51.0	51.0	49.9	49.9	48.9	47.8	47.8	46.8	45.6	43.5	40.4
77.5°	37.1	37.1	37.1	36.1	35.0	34.0	34.0	32.9	31.9	30.8	28.6
80°	25.5	25.5	25.5	25.5	24.4	23.4	23.4	22.2	22.2	21.2	19.1
82.5°	17.0	17.0	17.0	17.0	15.9	15.9	15.9	14.9	13.8	13.8	11.6
85°	11.6	11.6	10.6	10.6	10.6	10.6	9.5	9.5	8.5	7.4	7.4
87.5°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	5.2	4.2	4.2	3.1
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: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	756.0	756.0	755.0	751.8	752.9	751.8	752.9	751.8	748.6	751.8	748.6
5°	760.2	761.2	759.2	755.0	756.0	755.0	755.0	753.9	750.8	752.9	750.8
7.5°	764.5	763.4	762.4	758.1	759.2	758.1	758.1	756.0	752.9	755.0	751.8
10°	766.6	766.6	764.5	760.2	760.2	759.2	760.2	759.2	755.0	758.1	756.0
12.5°	766.6	765.5	765.5	760.2	761.2	760.2	761.2	759.2	756.0	758.1	757.1
15°	763.4	763.4	762.4	757.1	758.1	758.1	759.2	757.1	753.9	757.1	755.0
17.5°	757.1	757.1	756.0	751.8	753.9	753.9	755.0	752.9	749.6	751.8	751.8
20°	744.4	745.4	745.4	742.2	744.4	744.4	745.4	744.4	743.2	744.4	742.2
22.5°	729.5	731.6	731.6	728.4	730.5	730.5	733.8	732.6	730.5	731.6	730.5
25°	707.1	709.2	711.4	709.2	711.4	711.4	714.6	713.5	711.4	713.5	710.4
27.5°	681.6	682.8	684.9	682.8	685.9	684.9	688.0	687.0	683.8	687.0	685.9
30°	645.6	649.9	653.0	649.9	653.0	653.0	655.1	654.1	653.0	652.0	652.0
32.5°	605.2	609.5	609.5	608.4	610.5	610.5	611.6	609.5	608.4	609.5	610.5
35°	555.4	557.5	559.6	558.5	559.6	560.6	559.6	560.6	557.5	558.5	558.5
37.5°	501.1	503.2	503.2	500.1	502.2	502.2	500.1	500.1	498.0	500.1	495.9
40°	443.9	441.8	442.8	440.6	438.5	438.5	437.5	433.2	431.1	432.1	433.2
42.5°	387.5	387.5	384.4	379.1	373.8	373.8	370.6	368.5	364.2	366.4	365.2
45°	339.8	334.5	330.2	321.8	318.5	316.4	311.1	305.8	303.6	304.8	303.6
47.5°	294.1	289.9	279.2	267.6	264.4	261.2	254.9	248.5	246.4	244.2	244.2
50°	255.9	248.5	236.8	224.0	218.8	213.4	204.9	198.5	194.2	195.4	195.4
52.5°	220.9	212.4	198.5	182.6	176.2	169.9	162.5	155.0	151.9	150.8	150.8
55°	190.1	180.5	166.8	148.6	143.4	135.9	126.4	117.9	113.6	112.5	114.6
57.5°	162.5	154.0	138.0	120.0	113.6	106.1	96.6	89.2	83.9	82.9	83.9
60°	140.1	128.5	114.6	97.6	89.2	82.9	72.2	65.9	60.5	58.4	59.5
62.5°	117.9	107.2	93.5	76.5	70.1	63.8	54.1	46.8	42.5	41.4	42.5
65°	100.9	90.2	77.5	62.6	56.2	49.9	41.4	34.0	30.8	29.8	30.8
67.5°	83.9	74.4	63.8	49.9	44.6	39.2	30.8	25.5	21.2	20.1	21.2
70°	68.0	59.5	48.9	39.2	34.0	29.8	23.4	18.0	14.9	13.8	14.9
72.5°	51.0	44.6	37.1	28.6	25.5	22.2	17.0	12.8	10.6	9.5	10.6
75°	37.1	31.9	26.5	20.1	18.0	15.9	11.6	8.5	7.4	6.4	7.4
77.5°	25.5	22.2	18.0	13.8	11.6	10.6	7.4	6.4	5.2	4.2	4.2
80°	17.0	14.9	11.6	9.5	8.5	7.4	5.2	4.2	3.1	3.1	3.1
82.5°	10.6	8.5	7.4	5.2	4.2	4.2	3.1	2.1	2.1	2.1	2.1
85°	6.4	5.2	4.2	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
87.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0
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: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	750.8	748.6	748.6	749.6	750.8	751.8	749.6	748.6	748.6	751.8	749.6
5°	750.8	749.6	749.6	749.6	751.8	752.9	750.8	749.6	750.8	753.9	752.9
7.5°	753.9	751.8	752.9	752.9	753.9	756.0	753.9	752.9	753.9	757.1	755.0
10°	756.0	753.9	755.0	753.9	757.1	758.1	756.0	755.0	756.0	760.2	759.2
12.5°	757.1	756.0	756.0	755.0	758.1	759.2	757.1	756.0	757.1	760.2	759.2
15°	755.0	753.9	753.9	753.9	756.0	758.1	755.0	753.9	753.9	757.1	756.0
17.5°	750.8	748.6	748.6	748.6	749.6	750.8	747.5	746.5	745.4	748.6	747.5
20°	743.2	741.1	739.0	739.0	740.1	740.1	738.0	734.8	734.8	735.9	733.8
22.5°	729.5	728.4	726.2	725.2	727.4	726.2	722.0	718.9	717.8	718.9	716.8
25°	710.4	708.2	707.1	706.1	707.1	706.1	701.9	697.6	697.6	697.6	694.4
27.5°	683.8	681.6	680.6	680.6	681.6	679.5	675.2	671.0	668.9	668.9	665.8
30°	649.9	649.9	648.8	647.8	646.6	646.6	640.2	636.0	633.9	635.0	632.9
32.5°	608.4	607.4	606.2	603.1	604.1	603.1	597.8	594.6	591.4	589.2	588.2
35°	555.4	555.4	554.2	554.2	554.2	553.2	547.9	544.8	542.6	541.5	538.4
37.5°	496.9	495.9	494.8	494.8	494.8	494.8	491.6	488.4	488.4	487.4	485.2
40°	431.1	432.1	433.2	432.1	435.4	438.5	434.2	432.1	431.1	434.2	430.0
42.5°	367.4	366.4	371.6	372.8	372.8	378.0	379.1	380.1	379.1	381.1	381.1
45°	305.8	304.8	310.0	312.1	317.5	323.9	327.0	332.4	334.5	336.6	334.5
47.5°	247.4	251.6	255.9	261.2	265.5	276.1	282.5	287.8	289.9	293.0	293.0
50°	198.5	202.8	210.2	214.5	219.8	232.5	243.1	250.6	254.9	258.0	257.0
52.5°	152.9	160.4	169.9	174.1	181.6	196.4	208.1	216.6	221.9	225.1	226.1
55°	117.9	124.2	133.8	140.1	147.6	163.5	178.4	188.0	193.2	197.5	199.6
57.5°	87.1	94.5	105.1	110.4	118.9	137.0	149.8	161.4	167.8	173.1	174.1
60°	63.8	71.1	80.8	87.1	95.5	113.6	128.5	139.1	146.5	150.8	152.9
62.5°	45.6	53.1	62.6	69.0	76.5	92.4	107.2	117.9	125.2	130.6	133.8
65°	32.9	40.4	49.9	55.2	61.6	76.5	90.2	100.9	108.2	114.6	116.8
67.5°	24.4	29.8	38.2	43.5	49.9	61.6	73.2	82.9	90.2	95.5	97.6
70°	18.0	22.2	29.8	32.9	37.1	47.8	57.4	65.9	72.2	76.5	78.6
72.5°	12.8	15.9	21.2	24.4	27.6	36.1	43.5	49.9	54.1	58.4	60.5
75°	8.5	10.6	14.9	17.0	19.1	25.5	30.8	36.1	39.2	42.5	43.5
77.5°	5.2	7.4	10.6	11.6	13.8	17.0	21.2	24.4	26.5	28.6	30.8
80°	3.1	4.2	6.4	7.4	8.5	11.6	13.8	15.9	18.0	20.1	21.2
82.5°	2.1	3.1	4.2	4.2	5.2	6.4	8.5	10.6	11.6	12.8	13.8
85°	1.0	1.0	2.1	2.1	3.1	3.1	4.2	5.2	6.4	7.4	8.5
87.5°	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	3.1	4.2	4.2
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: P252671

CATALOG NUMBER: LE_6B15D010 EC6B10209050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	747.5	750.8	747.5	749.6	748.6	748.6	747.5	748.6
5°	750.8	755.0	750.8	753.9	751.8	751.8	751.8	752.9
7.5°	753.9	758.1	755.0	758.1	757.1	756.0	756.0	758.1
10°	757.1	760.2	758.1	761.2	760.2	759.2	759.2	761.2
12.5°	757.1	761.2	759.2	762.4	761.2	760.2	760.2	761.2
15°	753.9	759.2	756.0	759.2	758.1	757.1	757.1	759.2
17.5°	744.4	748.6	746.5	748.6	748.6	747.5	748.6	749.6
20°	731.6	734.8	732.6	734.8	734.8	732.6	733.8	734.8
22.5°	713.5	716.8	714.6	716.8	715.6	714.6	714.6	713.5
25°	691.2	695.5	692.2	694.4	692.2	690.1	690.1	691.2
27.5°	663.6	666.8	662.6	664.8	662.6	660.5	660.5	659.4
30°	627.5	628.6	625.4	627.5	625.4	624.4	622.2	622.2
32.5°	584.0	585.0	581.9	581.9	579.8	579.8	575.5	578.6
35°	533.0	534.1	533.0	532.0	528.8	527.8	526.6	526.6
37.5°	479.9	479.9	476.8	475.6	473.6	471.5	472.5	469.4
40°	425.8	424.8	421.5	422.6	421.5	418.4	417.2	416.2
42.5°	374.9	374.9	371.6	372.8	370.6	369.5	366.4	367.4
45°	330.2	330.2	327.0	327.0	326.0	322.8	323.9	321.8
47.5°	289.9	289.9	288.8	288.8	285.6	284.6	284.6	284.6
50°	254.9	254.9	254.9	254.9	253.8	252.8	251.6	252.8
52.5°	225.1	227.2	226.1	226.1	225.1	224.0	223.0	223.0
55°	198.5	199.6	199.6	200.6	199.6	198.5	199.6	198.5
57.5°	175.2	177.4	177.4	177.4	177.4	177.4	176.2	175.2
60°	155.0	156.1	156.1	157.1	157.1	157.1	156.1	156.1
62.5°	134.9	137.0	138.0	138.0	139.1	138.0	138.0	138.0
65°	118.9	121.0	122.1	121.0	122.1	122.1	121.0	121.0
67.5°	99.8	101.9	101.9	101.9	101.9	103.0	101.9	101.9
70°	80.8	82.9	81.8	82.9	82.9	82.9	82.9	82.9
72.5°	61.6	62.6	63.8	63.8	64.8	63.8	63.8	63.8
75°	44.6	46.8	46.8	46.8	46.8	47.8	47.8	47.8
77.5°	31.9	32.9	32.9	34.0	34.0	34.0	34.0	35.0
80°	22.2	22.2	23.4	23.4	24.4	24.4	24.4	24.4
82.5°	14.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
85°	8.5	9.5	9.5	9.5	9.5	10.6	10.6	10.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	4.2	4.2
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)