

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: P252455

Luminaire Tested: **LE_6B15D010 EC6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1595.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

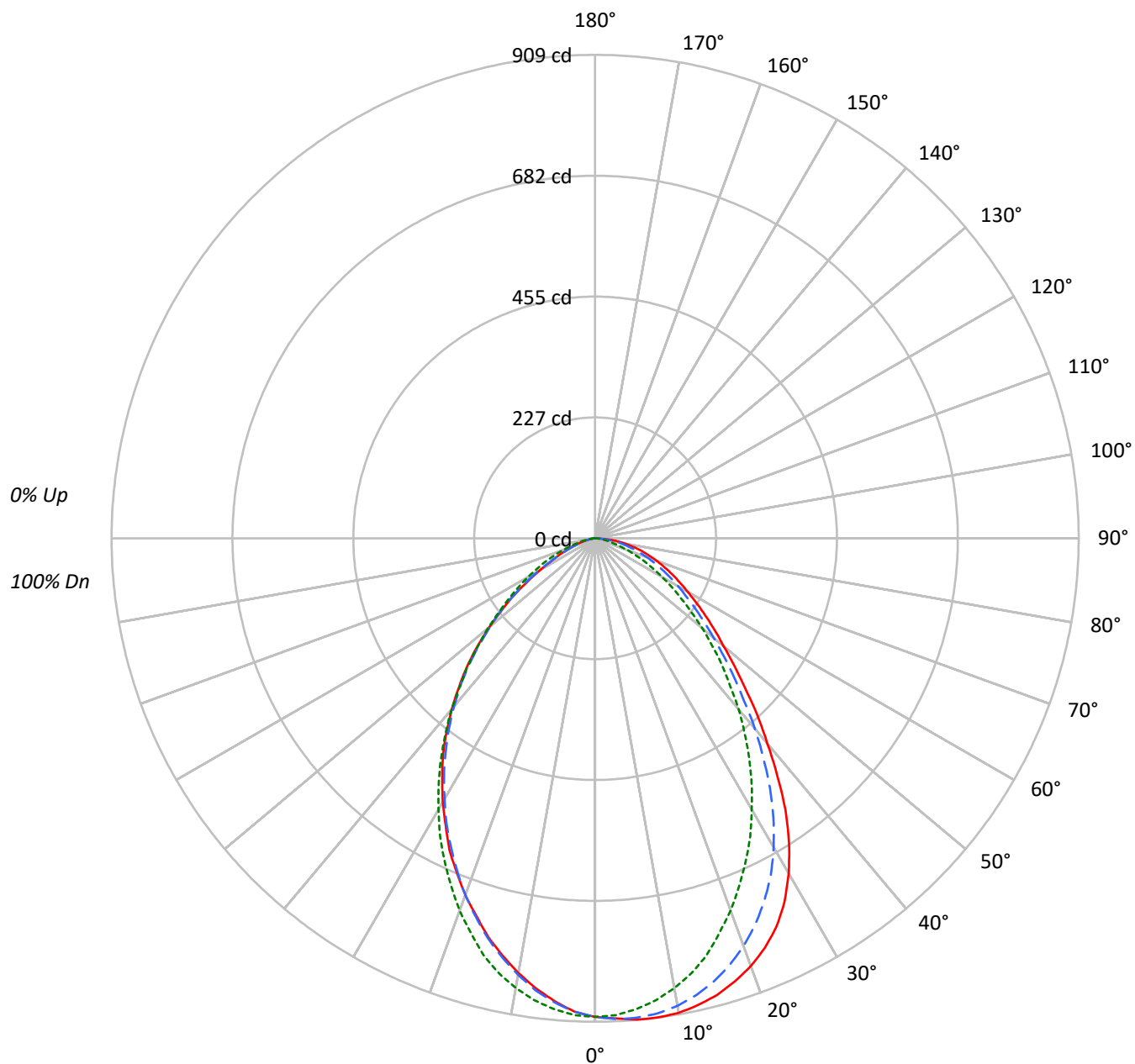
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100	108	105	101	99		100	98	96		97	95	93		93	91	90
2	103	96	90	85	100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73	93	84	78	73		81	76	71		79	74	70		76	72	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	45
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	41
9	63	50	43	38	61	50	43	38		49	42	37		48	42	37		47	41	37
10	59	47	39	35	58	46	39	35		45	39	34		44	38	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58710	58710	58710
5°	59504	58194	57212
10°	60026	56880	54978
15°	60018	54783	52419
20°	59437	51717	49544
25°	58027	48223	46603
30°	54798	44341	43121
35°	49666	40212	39711
40°	42889	35761	35650
45°	36777	31130	31361
50°	31961	26643	26267
55°	28720	22464	21043
60°	26096	18920	15501
65°	24514	15622	11393
70°	23367	12170	8355
75°	22384	8822	5672
80°	21115	6086	3757
85°	18714	3743	1871



TEST NUMBER: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	5.3
10°-20°	230.5	14.5
20°-30°	320.0	20.1
30°-40°	331.5	20.8
40°-50°	272.4	17.1
50°-60°	187.3	11.7
60°-70°	107.6	6.7
70°-80°	49.5	3.1
80°-90°	12.0	0.8
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°	634.8	39.8
0°-40°	966.2	60.6
0°-60°	1425.9	89.4
0°-90°	1595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	900	900	900	900	900	
5°	909	905	889	876	874	87
15°	889	862	811	779	776	250
25°	806	752	670	641	647	369
35°	624	572	505	490	499	387
45°	399	369	337	334	340	310
55°	252	229	198	186	185	227
65°	159	139	101	71	74	158
75°	89	70	35	22	22	94
85°	25	18	5	2	2	28
90°	0	0	0	0	0	



TEST NUMBER: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	903.6	911.1	906.1	904.9	907.4	907.4	907.4	903.6	906.1	902.4	904.9
5°	908.6	914.9	909.9	907.4	909.9	911.1	907.4	904.9	908.6	903.6	904.9
7.5°	908.6	914.9	909.9	908.6	909.9	909.9	908.6	903.6	906.1	901.1	901.1
10°	906.1	911.1	906.1	903.6	904.9	903.6	903.6	897.4	898.6	892.4	892.4
12.5°	898.6	904.9	898.6	896.1	896.1	896.1	892.4	887.4	888.6	881.1	879.9
15°	888.6	893.6	887.4	884.9	884.9	883.6	881.1	873.6	873.6	866.1	862.4
17.5°	873.6	878.6	873.6	869.9	868.6	866.1	863.6	856.1	853.6	844.9	841.1
20°	856.1	859.9	854.9	851.1	848.6	846.1	841.1	833.6	831.1	822.4	816.1
22.5°	833.6	838.6	831.1	827.4	824.9	821.1	816.1	808.6	804.9	793.6	786.1
25°	806.1	808.6	802.4	798.6	793.6	791.1	787.4	777.4	773.6	761.1	752.4
27.5°	771.1	773.6	766.1	763.6	757.4	754.9	749.9	741.1	736.1	723.6	714.9
30°	727.4	729.9	724.9	721.1	716.1	711.1	707.4	698.6	691.1	678.6	671.1
32.5°	678.6	682.4	677.4	672.4	663.6	664.9	658.6	649.9	643.6	632.4	623.6
35°	623.6	626.1	619.9	618.6	613.6	608.6	602.4	596.1	592.4	579.9	572.4
37.5°	562.4	568.6	562.4	557.4	554.9	551.1	547.4	538.6	536.1	528.6	518.6
40°	503.6	507.4	503.6	498.6	494.9	494.9	489.9	484.9	478.6	471.1	467.4
42.5°	451.1	448.6	447.4	444.9	439.9	438.6	437.4	431.1	427.4	419.9	413.6
45°	398.6	399.9	397.4	396.1	392.4	389.9	387.4	382.4	381.1	373.6	368.6
47.5°	354.9	353.6	351.1	351.1	348.6	346.1	343.6	339.9	338.6	332.4	327.4
50°	314.9	316.1	314.9	313.6	309.9	308.6	306.1	303.8	301.2	295.0	290.0
52.5°	282.5	281.2	280.0	280.0	276.2	275.0	272.5	270.0	267.5	261.2	257.5
55°	252.5	252.5	251.2	250.0	246.2	245.0	243.8	241.2	237.5	232.5	228.8
57.5°	225.0	225.0	223.8	222.5	220.0	220.0	217.5	215.0	212.5	207.5	202.5
60°	200.0	201.2	200.0	198.8	196.2	196.2	195.0	191.2	190.0	183.8	180.0
62.5°	178.8	178.8	178.8	177.5	176.2	173.8	173.8	170.0	167.5	163.8	158.8
65°	158.8	158.8	158.8	157.5	155.0	153.8	152.5	150.0	147.5	143.8	138.8
67.5°	140.0	140.0	140.0	138.8	136.2	135.0	133.8	132.5	128.8	125.0	120.0
70°	122.5	122.5	121.2	120.0	118.8	117.5	116.2	113.8	111.2	106.2	102.5
72.5°	105.0	105.0	105.0	102.5	101.2	101.2	98.8	97.5	95.0	90.0	86.2
75°	88.8	87.5	87.5	86.2	85.0	83.8	82.5	81.2	77.5	75.0	70.0
77.5°	72.5	72.5	71.2	70.0	70.0	68.8	67.5	65.0	63.8	60.0	56.2
80°	56.2	56.2	56.2	56.2	55.0	53.8	53.8	51.2	50.0	46.2	43.8
82.5°	42.5	41.2	41.2	41.2	40.0	38.8	38.8	37.5	36.2	33.8	31.2
85°	25.0	23.8	23.8	23.8	22.5	22.5	21.2	21.2	20.0	17.5	17.5
87.5°	7.5	7.5	8.8	8.8	7.5	7.5	7.5	7.5	7.5	6.2	6.2
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: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	902.4	906.1	901.1	899.9	904.9	902.4	901.1	898.6	899.9	897.4	893.6
5°	901.1	906.1	899.9	896.1	902.4	898.6	896.1	893.6	893.6	888.6	886.1
7.5°	897.4	899.9	893.6	889.9	893.6	889.9	887.4	883.6	882.4	876.1	872.4
10°	887.4	889.9	882.4	877.4	881.1	876.1	872.4	868.6	866.1	858.6	853.6
12.5°	873.6	874.9	866.1	859.9	862.4	858.6	852.4	847.4	844.9	837.4	831.1
15°	854.9	856.1	846.1	837.4	839.9	834.9	827.4	822.4	818.6	811.1	802.4
17.5°	832.4	831.1	819.9	811.1	812.4	806.1	798.6	791.1	786.1	777.4	771.1
20°	807.4	803.6	791.1	781.1	782.4	774.9	766.1	758.6	752.4	744.9	736.1
22.5°	776.1	771.1	759.9	747.4	748.6	742.4	729.9	723.6	717.4	707.4	699.9
25°	742.4	734.9	723.6	711.1	711.1	703.6	693.6	686.1	679.9	669.9	661.1
27.5°	702.4	698.6	683.6	673.6	672.4	664.9	656.1	647.4	639.9	631.1	622.4
30°	658.6	652.4	641.1	629.9	627.4	621.1	612.4	602.4	597.4	588.6	581.1
32.5°	612.4	606.1	593.6	582.4	581.1	576.1	568.6	558.6	553.6	547.4	542.4
35°	559.9	557.4	544.9	536.1	536.1	531.1	523.6	514.9	511.1	504.9	498.6
37.5°	509.9	506.1	494.9	487.4	487.4	481.1	473.6	469.9	466.1	461.1	457.4
40°	457.4	454.9	446.1	438.6	439.9	434.9	429.9	424.9	422.4	419.9	416.1
42.5°	408.6	406.1	399.9	393.6	393.6	389.9	384.9	381.1	378.6	374.9	373.6
45°	364.9	361.1	356.1	349.9	349.9	346.1	343.6	341.1	339.9	337.4	333.6
47.5°	322.4	319.9	314.9	308.6	308.6	308.6	303.8	300.0	300.0	297.5	296.2
50°	286.2	282.5	278.8	273.8	273.8	271.2	267.5	263.8	263.8	262.5	260.0
52.5°	252.5	250.0	245.0	240.0	240.0	237.5	233.8	232.5	231.2	227.5	226.2
55°	223.8	221.2	217.5	211.2	210.0	208.8	205.0	202.5	201.2	197.5	197.5
57.5°	197.5	195.0	188.8	185.0	183.8	181.2	177.5	175.0	173.8	171.2	168.8
60°	175.0	171.2	166.2	161.2	160.0	157.5	153.8	151.2	150.0	145.0	142.5
62.5°	153.8	150.0	145.0	140.0	138.8	136.2	131.2	128.8	126.2	121.2	118.8
65°	133.8	130.0	125.0	120.0	117.5	116.2	111.2	107.5	105.0	101.2	96.2
67.5°	115.0	111.2	106.2	100.0	100.0	96.2	92.5	88.8	85.0	81.2	77.5
70°	97.5	93.8	88.8	83.8	82.5	80.0	76.2	71.2	68.8	63.8	60.0
72.5°	81.2	77.5	72.5	67.5	66.2	63.8	60.0	55.0	51.2	47.5	43.8
75°	66.2	62.5	57.5	53.8	52.5	50.0	46.2	41.2	37.5	35.0	31.2
77.5°	52.5	48.8	45.0	41.2	40.0	37.5	33.8	31.2	27.5	25.0	21.2
80°	40.0	37.5	33.8	31.2	30.0	27.5	25.0	21.2	18.8	16.2	15.0
82.5°	28.8	26.2	23.8	20.0	20.0	17.5	16.2	13.8	11.2	10.0	8.8
85°	16.2	13.8	12.5	11.2	10.0	10.0	8.8	7.5	6.2	5.0	5.0
87.5°	5.0	5.0	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5
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: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	893.6	894.9	892.4	894.9	892.4	893.6	891.1	893.6	891.1	893.6	888.6
5°	884.9	884.9	881.1	883.6	881.1	882.4	877.4	878.6	876.1	878.6	873.6
7.5°	869.9	871.1	864.9	867.4	863.6	863.6	859.9	861.1	857.4	858.6	854.9
10°	852.4	851.1	844.9	847.4	842.4	842.4	838.6	838.6	833.6	834.9	829.9
12.5°	827.4	826.1	818.6	821.1	816.1	816.1	812.4	812.4	807.4	809.9	804.9
15°	798.6	797.4	789.9	791.1	786.1	786.1	781.1	782.4	778.6	781.1	776.1
17.5°	766.1	764.9	757.4	758.6	752.4	753.6	749.9	748.6	746.1	747.4	743.6
20°	732.4	729.9	722.4	723.6	721.1	717.4	714.9	716.1	713.6	716.1	712.4
22.5°	697.4	692.4	686.1	686.1	683.6	683.6	679.9	682.4	677.4	681.1	678.6
25°	657.4	653.6	648.6	651.1	646.1	646.1	642.4	643.6	641.1	643.6	641.1
27.5°	618.6	616.1	608.6	611.1	607.4	608.6	604.9	606.1	604.9	607.4	604.9
30°	577.4	576.1	571.1	571.1	569.9	568.6	567.4	567.4	566.1	569.9	567.4
32.5°	538.6	534.9	529.9	533.6	527.4	531.1	528.6	531.1	528.6	531.1	529.9
35°	498.6	497.4	491.1	492.4	491.1	491.1	489.9	489.9	489.9	493.6	493.6
37.5°	456.1	454.9	451.1	452.4	449.9	448.6	448.6	451.1	451.1	453.6	453.6
40°	414.9	416.1	412.4	412.4	411.1	411.1	411.1	413.6	412.4	414.9	413.6
42.5°	373.6	373.6	369.9	371.1	369.9	371.1	371.1	373.6	373.6	374.9	373.6
45°	334.9	334.9	333.6	334.9	332.4	333.6	332.4	334.9	333.6	334.9	334.9
47.5°	296.2	296.2	296.2	295.0	295.0	295.0	295.0	295.0	293.8	296.2	295.0
50°	260.0	261.2	260.0	260.0	258.8	260.0	258.8	258.8	256.2	257.5	257.5
52.5°	227.5	227.5	225.0	225.0	225.0	223.8	223.8	223.8	222.5	222.5	220.0
55°	196.2	196.2	193.8	193.8	192.5	191.2	190.0	190.0	186.2	186.2	182.5
57.5°	167.5	166.2	162.5	162.5	160.0	158.8	157.5	156.2	153.8	151.2	150.0
60°	141.2	138.8	136.2	135.0	132.5	130.0	127.5	125.0	122.5	121.2	120.0
62.5°	116.2	112.5	110.0	108.8	106.2	102.5	100.0	97.5	95.0	93.8	91.2
65°	93.8	90.0	86.2	85.0	82.5	80.0	76.2	73.8	71.2	70.0	70.0
67.5°	73.8	70.0	65.0	65.0	62.5	60.0	57.5	55.0	53.8	55.0	55.0
70°	55.0	52.5	48.8	47.5	45.0	42.5	41.2	41.2	41.2	42.5	41.2
72.5°	41.2	37.5	35.0	33.8	32.5	31.2	31.2	31.2	30.0	31.2	31.2
75°	28.8	26.2	23.8	23.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
77.5°	20.0	17.5	16.2	16.2	16.2	15.0	15.0	15.0	15.0	15.0	15.0
80°	12.5	12.5	11.2	11.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	7.5	7.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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: P252455

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	888.6	892.4	887.4	891.1	889.9	888.6	886.1	891.1
5°	873.6	874.9	869.9	874.9	873.6	871.1	868.6	873.6
7.5°	852.4	856.1	849.9	854.9	853.6	851.1	848.6	853.6
10°	828.6	832.4	827.4	831.1	831.1	828.6	824.9	829.9
12.5°	802.4	804.9	799.9	804.9	803.6	801.1	799.9	803.6
15°	773.6	777.4	772.4	776.1	774.9	773.6	772.4	776.1
17.5°	742.4	746.1	742.4	746.1	746.1	742.4	741.1	743.6
20°	711.1	713.6	709.9	713.6	712.4	712.4	709.9	713.6
22.5°	676.1	679.9	677.4	679.9	678.6	678.6	677.4	679.9
25°	641.1	644.9	641.1	644.9	643.6	643.6	641.1	647.4
27.5°	606.1	608.6	604.9	609.9	608.6	606.1	607.4	608.6
30°	568.6	571.1	568.6	572.4	572.4	572.4	569.9	572.4
32.5°	531.1	534.9	531.1	534.9	533.6	533.6	532.4	534.9
35°	493.6	494.9	492.4	496.1	496.1	497.4	494.9	498.6
37.5°	454.9	456.1	454.9	456.1	458.6	454.9	457.4	458.6
40°	414.9	417.4	416.1	417.4	417.4	418.6	417.4	418.6
42.5°	374.9	377.4	374.9	378.6	377.4	377.4	378.6	378.6
45°	333.6	337.4	334.9	337.4	338.6	337.4	337.4	339.9
47.5°	295.0	297.5	296.2	297.5	297.5	297.5	297.5	300.0
50°	256.2	257.5	257.5	258.8	258.8	260.0	257.5	258.8
52.5°	217.5	220.0	220.0	220.0	218.8	220.0	220.0	220.0
55°	182.5	183.8	181.2	183.8	183.8	182.5	182.5	185.0
57.5°	148.8	148.8	148.8	148.8	148.8	147.5	148.8	148.8
60°	117.5	118.8	117.5	117.5	117.5	117.5	116.2	118.8
62.5°	91.2	91.2	90.0	91.2	91.2	91.2	92.5	92.5
65°	71.2	72.5	71.2	72.5	72.5	72.5	72.5	73.8
67.5°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
70°	42.5	42.5	42.5	43.8	42.5	42.5	42.5	43.8
72.5°	31.2	31.2	31.2	31.2	31.2	31.2	32.5	32.5
75°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
77.5°	15.0	15.0	15.0	16.2	15.0	16.2	15.0	15.0
80°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
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)