

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: P252372

Luminaire Tested: **LD6B20D010 EU6B10209050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252372
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: LD6B20D010 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: 1606.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

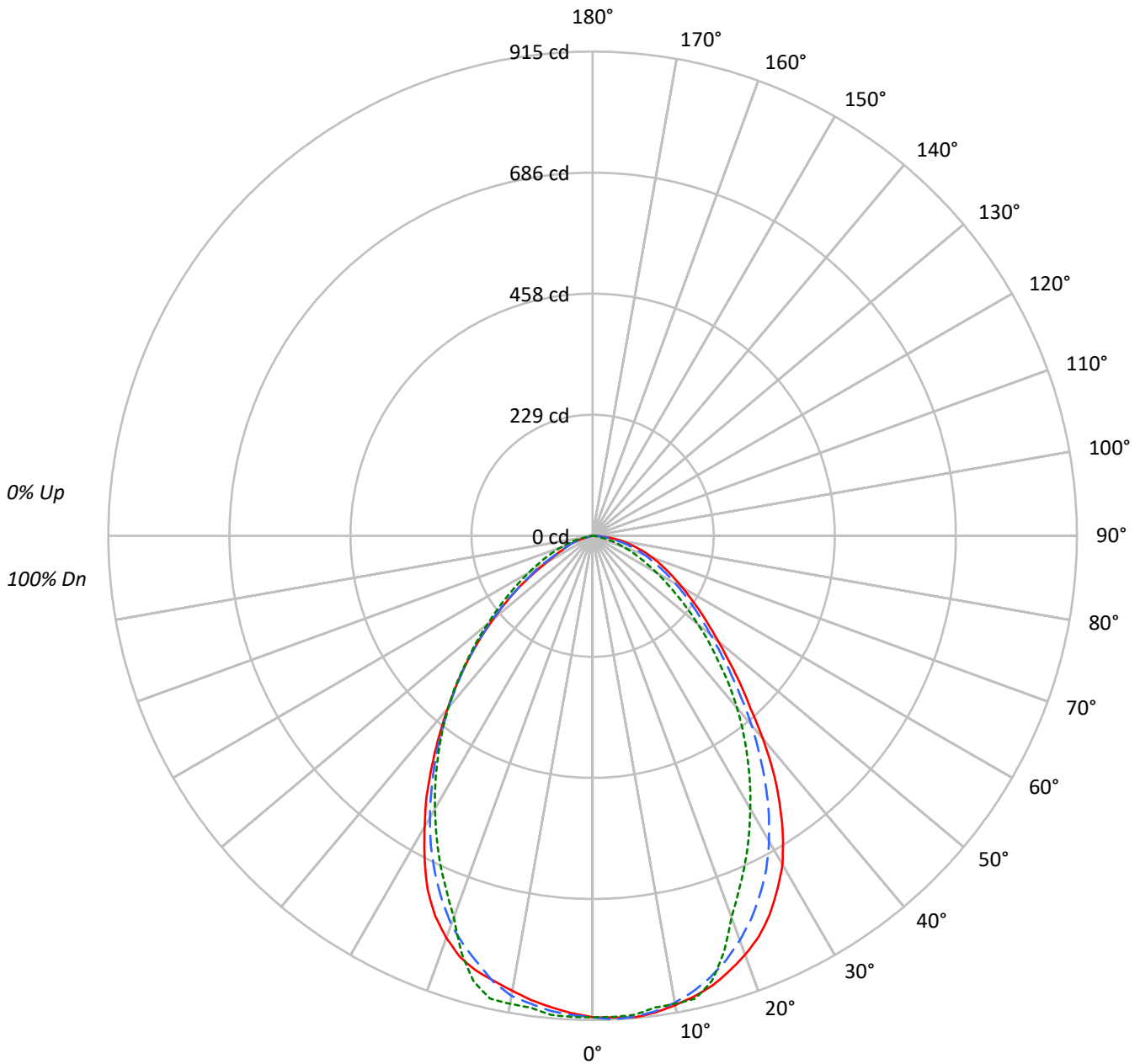
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252372

CATALOG NUMBER: LD6B20D010 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°	59369	59369	59369
5°	59825	59517	58587
10°	59655	59503	57854
15°	59383	58829	57472
20°	58500	53251	56118
25°	56911	49087	53082
30°	54037	44869	47807
35°	49037	40563	42076
40°	42574	36136	36229
45°	36306	31075	30752
50°	31423	26267	24826
55°	28095	21907	19223
60°	25600	18202	12957
65°	23897	14959	9664
70°	22776	12170	8107
75°	21451	8646	2672
80°	20438	4433	902
85°	16842	2620	0



TEST NUMBER: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	5.4
10°-20°	240.3	15.0
20°-30°	331.7	20.7
30°-40°	337.6	21.0
40°-50°	271.3	16.9
50°-60°	180.4	11.2
60°-70°	102.8	6.4
70°-80°	46.2	2.9
80°-90°	9.7	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°	658.0	41.0
0°-40°	995.6	62.0
0°-60°	1447.3	90.1
0°-90°	1606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	910	910	910	910	910	
5°	914	912	909	902	895	87
15°	879	863	871	837	851	247
25°	791	748	682	704	737	362
35°	616	568	509	519	528	383
45°	394	370	337	333	333	305
55°	247	230	193	171	169	222
65°	155	138	97	63	63	154
75°	85	71	34	14	11	91
85°	22	15	4	1	0	27
90°	0	0	0	0	0	



TEST NUMBER: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	911.2	915.9	914.7	913.5	914.7	913.5	911.2	911.2	908.8	908.8	914.7
5°	913.5	915.9	914.7	913.5	913.5	914.7	910.0	910.0	907.6	906.4	912.3
7.5°	908.8	912.3	910.0	910.0	908.8	910.0	905.2	905.2	901.7	900.5	906.4
10°	900.5	905.2	902.9	902.9	902.9	900.5	898.2	897.0	893.4	892.2	895.8
12.5°	891.1	894.6	893.4	891.1	891.1	891.1	886.3	885.2	880.4	878.1	881.6
15°	879.2	881.6	880.4	879.2	876.9	876.9	872.2	869.8	865.1	860.3	862.7
17.5°	861.5	865.1	862.7	861.5	858.0	858.0	853.2	850.9	843.8	839.1	840.2
20°	842.6	843.8	842.6	840.2	836.7	835.5	830.8	826.1	820.2	814.2	813.1
22.5°	820.2	821.3	817.8	815.4	811.9	810.7	804.8	801.2	791.8	784.7	783.5
25°	790.6	791.8	791.8	785.9	783.5	781.2	775.2	769.3	761.1	751.6	748.1
27.5°	755.2	758.7	756.3	750.4	745.7	744.5	738.6	733.9	723.3	715.0	710.3
30°	717.3	716.2	715.0	711.4	704.3	703.2	697.3	691.3	683.1	672.4	666.5
32.5°	668.9	668.9	667.7	664.2	657.1	654.7	650.0	642.9	633.4	625.2	619.3
35°	615.7	616.9	615.7	608.6	603.9	601.5	599.2	590.9	582.6	573.2	568.4
37.5°	560.2	556.6	557.8	551.9	546.0	548.3	541.3	537.7	528.3	521.2	516.4
40°	499.9	502.3	497.5	495.2	491.6	488.1	488.1	482.2	477.4	469.2	466.8
42.5°	440.8	444.4	443.2	440.8	436.1	437.3	431.4	429.0	423.1	419.5	416.0
45°	393.5	393.5	393.5	391.2	390.0	387.6	384.1	380.5	377.0	372.3	369.9
47.5°	347.4	347.4	348.6	346.3	343.9	342.7	340.4	340.4	334.4	329.7	327.4
50°	309.6	309.6	309.6	307.3	304.9	304.9	302.5	300.2	296.6	293.1	290.7
52.5°	275.4	275.4	275.4	273.0	271.8	270.6	269.4	268.3	263.5	261.2	258.8
55°	247.0	245.8	245.8	244.6	242.3	242.3	241.1	238.7	235.2	231.6	230.4
57.5°	218.6	219.8	218.6	218.6	216.3	216.3	213.9	212.7	209.2	206.8	204.4
60°	196.2	196.2	196.2	195.0	192.6	193.8	191.4	190.3	186.7	183.2	180.8
62.5°	173.7	174.9	174.9	173.7	171.4	171.4	170.2	169.0	165.4	161.9	158.4
65°	154.8	154.8	154.8	153.6	152.5	152.5	151.3	150.1	146.5	141.8	138.3
67.5°	137.1	135.9	135.9	135.9	134.7	133.5	132.4	131.2	127.6	124.1	119.4
70°	119.4	119.4	119.4	118.2	115.8	117.0	115.8	114.6	111.1	107.5	104.0
72.5°	102.8	102.8	101.6	100.5	100.5	99.3	99.3	98.1	94.5	89.8	86.3
75°	85.1	85.1	85.1	85.1	82.7	83.9	81.5	80.4	78.0	74.5	70.9
77.5°	69.7	69.7	69.7	68.5	67.4	67.4	66.2	65.0	61.5	59.1	54.4
80°	54.4	54.4	54.4	54.4	53.2	52.0	50.8	49.6	47.3	43.7	40.2
82.5°	40.2	40.2	39.0	39.0	39.0	37.8	36.6	35.5	33.1	30.7	28.4
85°	22.5	23.6	23.6	21.3	22.5	21.3	21.3	18.9	18.9	16.5	15.4
87.5°	8.3	7.1	7.1	7.1	7.1	7.1	7.1	5.9	5.9	5.9	4.7
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: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	910.0	908.8	913.5	913.5	906.4	910.0	911.2	908.8	908.8	910.0	906.4
5°	907.6	905.2	910.0	911.2	904.1	907.6	908.8	906.4	907.6	908.8	904.1
7.5°	899.3	899.3	902.9	904.1	897.0	900.5	900.5	898.2	899.3	899.3	895.8
10°	891.1	887.5	891.1	891.1	885.2	886.3	888.7	887.5	892.2	898.2	898.2
12.5°	875.7	872.2	878.1	878.1	874.5	879.2	885.2	888.7	893.4	895.8	888.7
15°	856.8	858.0	868.6	876.9	873.3	880.4	886.3	884.0	878.1	871.0	860.3
17.5°	832.0	828.4	837.9	842.6	837.9	840.2	845.0	840.2	830.8	824.9	810.7
20°	803.6	794.2	794.2	791.8	783.5	783.5	782.3	774.1	770.5	767.0	761.1
22.5°	771.7	761.1	757.5	750.4	743.3	742.2	738.6	730.3	725.6	723.3	716.2
25°	735.1	725.6	719.7	712.6	702.0	699.6	696.1	687.8	685.4	681.9	676.0
27.5°	697.3	685.4	677.2	670.1	660.6	659.4	652.3	646.4	641.7	639.3	634.6
30°	653.5	640.5	634.6	625.2	618.1	615.7	609.8	601.5	598.0	595.6	592.1
32.5°	605.1	594.4	588.5	580.3	570.8	572.0	564.9	557.8	555.4	553.1	549.5
35°	557.8	547.2	540.1	533.0	527.1	524.7	520.0	514.1	510.5	509.3	507.0
37.5°	505.8	497.5	491.6	484.5	479.8	477.4	475.1	469.2	466.8	466.8	462.1
40°	455.0	447.9	443.2	439.6	433.7	432.5	430.2	426.6	425.4	424.3	420.7
42.5°	408.9	399.4	395.9	393.5	390.0	387.6	386.4	384.1	382.9	381.7	378.2
45°	365.2	356.9	353.4	351.0	347.4	346.3	345.1	341.5	339.2	336.8	335.6
47.5°	322.6	316.7	315.5	309.6	307.3	304.9	302.5	300.2	299.0	297.8	293.1
50°	286.0	282.4	276.5	273.0	270.6	269.4	264.7	261.2	260.0	258.8	255.3
52.5°	252.9	248.2	244.6	238.7	237.5	235.2	232.8	228.1	225.7	224.5	221.0
55°	223.4	219.8	215.1	210.4	206.8	205.6	202.1	197.4	195.0	192.6	190.3
57.5°	198.5	192.6	187.9	183.2	180.8	177.3	173.7	171.4	167.8	164.3	160.7
60°	174.9	170.2	164.3	159.5	157.2	154.8	150.1	146.5	143.0	139.5	135.9
62.5°	152.5	147.7	141.8	137.1	134.7	132.4	127.6	124.1	120.5	117.0	112.3
65°	132.4	127.6	122.9	118.2	115.8	113.5	108.7	104.0	100.5	96.9	92.2
67.5°	115.8	109.9	105.2	100.5	98.1	95.7	91.0	87.5	82.7	79.2	74.5
70°	98.1	93.4	89.8	85.1	82.7	80.4	75.6	70.9	67.4	63.8	59.1
72.5°	82.7	76.8	73.3	68.5	66.2	65.0	60.3	56.7	53.2	48.5	44.9
75°	66.2	61.5	56.7	53.2	50.8	49.6	44.9	41.4	37.8	34.3	30.7
77.5°	50.8	47.3	42.5	39.0	36.6	35.5	30.7	27.2	23.6	21.3	17.7
80°	37.8	33.1	30.7	27.2	26.0	23.6	21.3	17.7	15.4	11.8	9.5
82.5°	26.0	22.5	20.1	17.7	16.5	15.4	13.0	10.6	8.3	7.1	5.9
85°	14.2	11.8	10.6	9.5	8.3	8.3	7.1	5.9	4.7	3.5	2.4
87.5°	4.7	3.5	3.5	3.5	3.5	2.4	2.4	2.4	1.2	1.2	1.2
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: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	908.8	908.8	908.8	907.6	907.6	907.6	906.4	911.2	906.4	905.2	908.8
5°	907.6	905.2	905.2	905.2	905.2	904.1	902.9	905.2	901.7	900.5	900.5
7.5°	900.5	899.3	899.3	898.2	897.0	895.8	894.6	895.8	892.2	891.1	891.1
10°	901.7	899.3	899.3	895.8	893.4	889.9	886.3	887.5	882.8	879.2	879.2
12.5°	887.5	881.6	878.1	874.5	872.2	871.0	866.2	868.6	863.9	862.7	862.7
15°	855.6	848.5	842.6	840.2	840.2	837.9	834.3	839.1	836.7	837.9	843.8
17.5°	806.0	802.4	798.9	797.7	798.9	801.2	803.6	810.7	810.7	814.2	820.2
20°	762.3	759.9	762.3	762.3	763.4	768.2	772.9	778.8	781.2	784.7	793.0
22.5°	719.7	719.7	722.1	725.6	724.4	732.7	733.9	744.5	744.5	751.6	758.7
25°	678.3	678.3	680.7	681.9	684.3	689.0	693.7	702.0	704.3	711.4	717.3
27.5°	638.2	637.0	637.0	638.2	640.5	646.4	648.8	658.3	661.8	666.5	672.4
30°	593.3	592.1	594.4	596.8	595.6	601.5	605.1	612.2	614.5	619.3	624.0
32.5°	550.7	550.7	550.7	553.1	553.1	557.8	557.8	566.1	566.1	569.6	574.3
35°	507.0	507.0	508.2	509.3	510.5	511.7	512.9	517.6	518.8	520.0	522.3
37.5°	465.6	464.4	465.6	465.6	463.3	468.0	468.0	472.7	469.2	472.7	473.9
40°	423.1	423.1	421.9	421.9	421.9	424.3	421.9	425.4	423.1	425.4	424.3
42.5°	379.4	379.4	377.0	379.4	378.2	378.2	378.2	380.5	377.0	379.4	380.5
45°	335.6	334.4	334.4	333.3	333.3	333.3	334.4	334.4	333.3	335.6	335.6
47.5°	293.1	291.9	291.9	291.9	291.9	293.1	289.5	291.9	289.5	289.5	289.5
50°	256.4	255.3	254.1	252.9	251.7	251.7	250.5	250.5	248.2	247.0	245.8
52.5°	221.0	219.8	217.4	217.4	216.3	215.1	211.5	211.5	208.0	206.8	206.8
55°	189.1	185.5	184.4	182.0	182.0	179.6	177.3	174.9	171.4	169.0	169.0
57.5°	159.5	156.0	153.6	152.5	151.3	148.9	144.2	143.0	138.3	137.1	135.9
60°	133.5	130.0	126.5	124.1	122.9	119.4	114.6	112.3	109.9	106.4	102.8
62.5°	108.7	105.2	100.5	99.3	96.9	93.4	89.8	86.3	83.9	80.4	78.0
65°	87.5	83.9	80.4	78.0	75.6	72.1	68.5	65.0	62.6	61.5	60.3
67.5°	70.9	66.2	62.6	61.5	59.1	56.7	53.2	52.0	49.6	49.6	49.6
70°	55.5	52.0	48.5	47.3	46.1	43.7	41.4	41.4	41.4	41.4	41.4
72.5°	41.4	39.0	35.5	34.3	33.1	31.9	29.5	30.7	29.5	29.5	29.5
75°	26.0	23.6	21.3	20.1	18.9	17.7	16.5	15.4	14.2	13.0	13.0
77.5°	14.2	11.8	10.6	9.5	9.5	8.3	7.1	7.1	5.9	5.9	5.9
80°	8.3	7.1	5.9	4.7	4.7	3.5	3.5	3.5	3.5	2.4	2.4
82.5°	4.7	3.5	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
85°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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	0.0	0.0	0.0



TEST NUMBER: P252372

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	902.9	906.4	902.9	906.4	906.4	906.4	906.4	902.9
5°	897.0	899.3	895.8	898.2	899.3	898.2	898.2	894.6
7.5°	886.3	888.7	885.2	888.7	889.9	888.7	887.5	885.2
10°	875.7	876.9	873.3	875.7	878.1	878.1	876.9	873.3
12.5°	859.2	862.7	859.2	861.5	863.9	865.1	865.1	861.5
15°	840.2	846.2	843.8	847.3	850.9	852.1	852.1	850.9
17.5°	821.3	827.2	823.7	829.6	833.2	835.5	836.7	834.3
20°	794.2	801.2	798.9	803.6	808.3	811.9	811.9	808.3
22.5°	758.7	768.2	767.0	770.5	776.4	777.6	780.0	777.6
25°	719.7	726.8	725.6	729.2	736.3	736.3	737.4	737.4
27.5°	674.8	681.9	680.7	683.1	687.8	689.0	690.2	687.8
30°	626.3	629.9	629.9	633.4	637.0	638.2	638.2	634.6
32.5°	573.2	577.9	580.3	579.1	582.6	585.0	583.8	583.8
35°	524.7	525.9	527.1	528.3	529.4	531.8	529.4	528.3
37.5°	472.7	476.3	473.9	476.3	478.6	477.4	476.3	476.3
40°	425.4	426.6	424.3	426.6	427.8	427.8	427.8	425.4
42.5°	378.2	380.5	378.2	380.5	380.5	380.5	380.5	379.4
45°	330.9	333.3	333.3	334.4	334.4	333.3	333.3	333.3
47.5°	287.2	289.5	287.2	289.5	290.7	288.4	288.4	288.4
50°	245.8	244.6	244.6	245.8	245.8	245.8	245.8	244.6
52.5°	203.3	204.4	204.4	204.4	205.6	204.4	205.6	205.6
55°	166.6	166.6	166.6	167.8	166.6	166.6	167.8	169.0
57.5°	133.5	132.4	131.2	131.2	132.4	131.2	131.2	131.2
60°	102.8	101.6	100.5	100.5	100.5	100.5	100.5	99.3
62.5°	76.8	76.8	76.8	78.0	78.0	78.0	78.0	79.2
65°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	62.6
67.5°	49.6	49.6	49.6	50.8	50.8	50.8	50.8	50.8
70°	41.4	41.4	42.5	41.4	42.5	42.5	42.5	42.5
72.5°	28.4	28.4	28.4	28.4	28.4	27.2	28.4	27.2
75°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	10.6
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)