

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: P252244

Luminaire Tested: **LE_6B10D010 EC6B10209730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209730 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 916.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

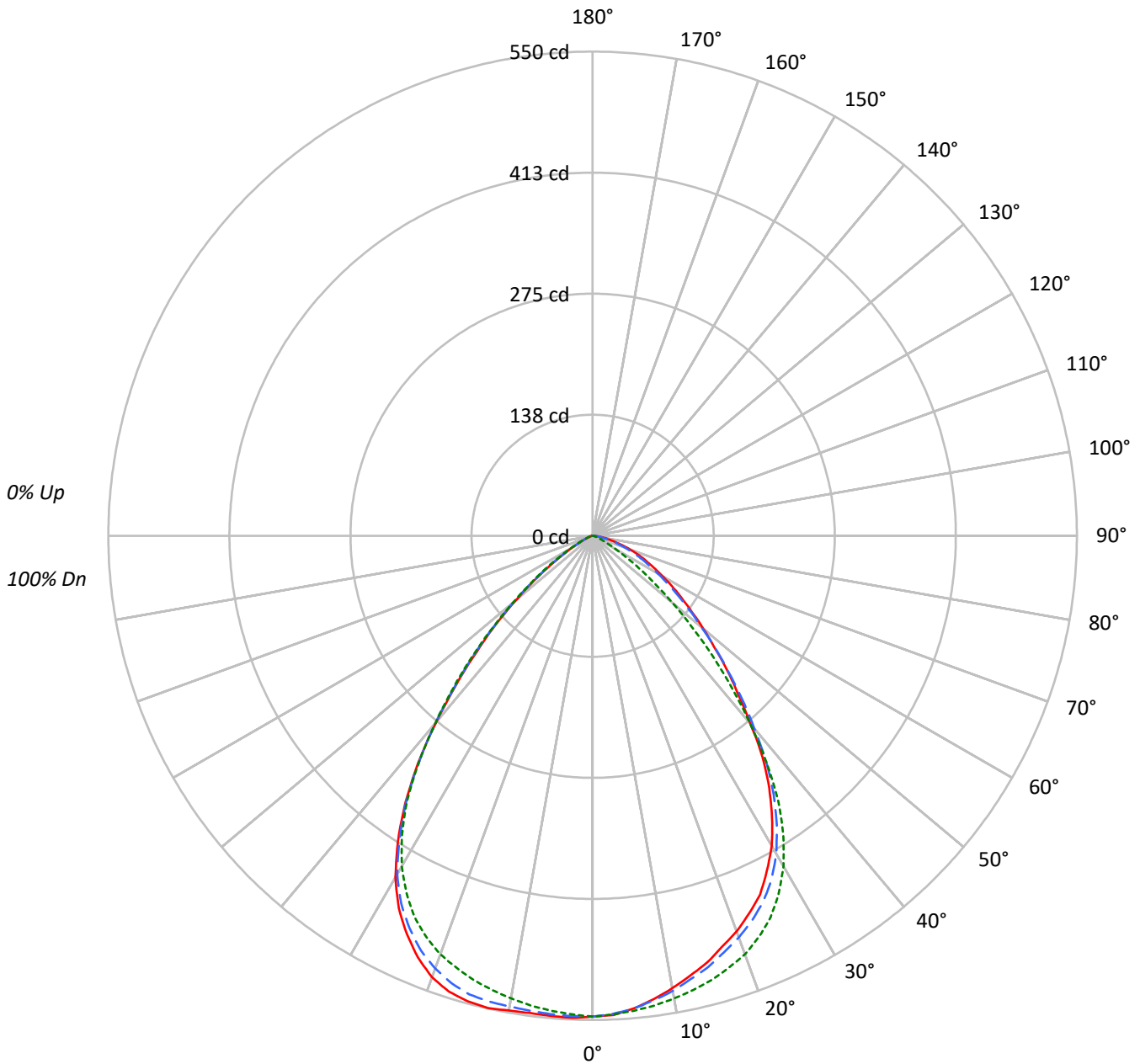
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52								
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40								
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	35628	35628	35628
5°	35292	35463	35856
10°	34568	35349	36270
15°	33906	35284	36979
20°	33200	35123	37047
25°	32386	34423	35935
30°	30661	32649	33742
35°	27844	29261	29532
40°	23761	23659	23540
45°	19966	17715	17161
50°	16666	11987	11378
55°	14036	7348	6688
60°	11874	3862	3366
65°	10281	2038	1621
70°	8565	1259	877
75°	6327	807	504
80°	4959	526	225
85°	3892	449	0



TEST NUMBER: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	5.6
10°-20°	147.4	16.1
20°-30°	217.6	23.8
30°-40°	224.3	24.5
40°-50°	154.9	16.9
50°-60°	76.4	8.3
60°-70°	30.9	3.4
70°-80°	11.0	1.2
80°-90°	2.3	0.2
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°	416.5	45.5
0°-40°	640.7	69.9
0°-60°	872.0	95.2
0°-90°	916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	539	539	542	546	548	51
15°	502	507	522	540	548	141
25°	450	458	478	492	499	206
35°	350	358	367	369	371	217
45°	216	218	192	189	186	167
55°	123	119	65	61	59	111
65°	67	60	13	10	10	66
75°	25	21	3	2	2	28
85°	5	4	1	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	544.9	542.9	544.1	541.5	544.9	541.5	542.1	542.9	542.1	542.9	543.5
5°	538.9	536.9	538.9	535.6	538.9	536.9	536.9	537.6	537.6	538.2	538.9
7.5°	531.0	529.0	531.0	527.6	531.6	529.6	529.6	531.0	530.2	531.0	532.2
10°	521.8	519.1	521.1	519.1	523.0	520.4	521.8	521.8	521.8	523.8	525.0
12.5°	511.9	509.2	511.9	508.5	512.5	510.5	511.1	513.1	513.9	515.1	515.8
15°	502.0	498.6	500.0	498.0	502.0	500.0	500.6	503.2	503.2	505.2	507.2
17.5°	489.4	486.8	489.4	486.8	490.1	488.8	490.1	492.0	492.0	494.0	496.0
20°	478.2	475.6	477.5	475.6	479.5	477.5	478.2	480.9	481.5	483.5	485.5
22.5°	464.4	462.4	463.8	461.8	465.6	464.4	465.0	467.6	468.2	469.6	472.9
25°	449.9	445.9	447.9	446.5	450.5	448.5	449.9	452.5	453.8	455.8	458.4
27.5°	428.8	426.8	428.1	428.1	431.4	429.4	430.0	432.8	434.6	436.6	440.0
30°	407.0	403.6	405.0	405.6	408.2	407.0	408.2	410.9	411.6	414.2	416.9
32.5°	379.2	378.0	380.6	379.2	380.6	380.6	381.2	383.2	384.5	385.9	389.1
35°	349.6	347.0	349.6	348.2	351.5	349.6	351.5	353.5	353.5	356.1	358.1
37.5°	317.2	314.0	315.2	315.2	316.6	316.0	316.0	319.2	319.9	321.9	323.9
40°	279.0	277.8	280.4	279.6	280.4	280.4	281.0	283.0	284.2	285.0	285.6
42.5°	244.8	245.4	246.0	246.0	246.0	246.0	246.0	248.6	248.0	250.0	250.6
45°	216.4	213.8	215.0	214.4	216.4	214.4	216.4	218.4	217.0	219.0	217.6
47.5°	187.4	187.4	187.4	186.6	188.0	187.4	188.6	189.2	189.2	189.2	188.6
50°	164.2	162.2	162.9	162.9	163.6	162.9	164.2	164.9	164.9	163.6	161.0
52.5°	141.8	141.1	141.1	142.5	142.5	141.8	141.8	141.8	141.8	139.9	138.5
55°	123.4	122.0	122.6	122.6	122.6	122.6	123.4	122.6	122.6	120.8	118.8
57.5°	106.9	105.5	105.5	105.5	106.2	105.5	105.5	105.5	104.9	102.9	100.2
60°	91.0	90.4	91.0	91.0	91.6	91.0	91.0	91.0	89.8	87.8	85.1
62.5°	77.9	77.9	77.9	78.5	78.5	77.9	77.9	77.1	76.5	73.9	71.2
65°	66.6	66.0	66.6	66.6	67.2	67.2	66.6	66.0	65.2	62.6	60.0
67.5°	55.4	54.8	55.4	55.4	56.1	55.4	55.4	55.4	53.4	52.1	49.5
70°	44.9	44.2	44.2	44.2	44.9	43.5	44.2	44.2	42.9	40.9	38.2
72.5°	34.2	34.2	34.2	34.2	34.2	34.2	33.6	33.6	32.4	30.4	29.0
75°	25.1	25.1	25.8	25.8	25.1	25.1	25.1	24.4	23.8	22.4	21.1
77.5°	18.5	18.5	18.5	18.5	17.8	17.8	17.8	17.1	16.5	15.9	14.5
80°	13.2	13.2	13.2	12.5	13.2	12.5	12.5	12.5	11.2	10.5	9.9
82.5°	9.2	8.6	8.6	8.6	8.6	8.6	8.6	7.9	7.9	7.2	6.6
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.6	4.0	4.0
87.5°	2.6	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	2.0
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: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	543.5	543.5	544.9	542.9	546.1	544.1	543.5	546.8	544.9	544.1	545.5
5°	538.9	539.5	540.2	538.9	542.1	540.2	540.2	543.5	542.1	541.5	543.5
7.5°	533.0	533.6	534.9	534.2	536.9	535.6	536.2	539.5	538.2	538.2	540.2
10°	525.8	527.0	528.4	528.4	531.6	530.2	530.2	534.2	533.0	533.6	536.2
12.5°	517.1	519.1	521.1	521.8	525.0	523.0	523.8	528.4	527.6	528.4	531.0
15°	507.9	510.5	512.5	512.5	516.5	514.5	516.5	521.1	519.8	522.4	525.8
17.5°	497.4	500.0	502.6	503.2	507.2	505.9	508.5	513.1	513.1	514.5	518.5
20°	487.5	490.8	492.0	494.0	498.0	497.4	498.6	503.9	503.9	505.9	509.9
22.5°	474.2	477.5	480.1	482.1	485.5	485.5	487.5	492.0	492.0	493.4	497.4
25°	459.8	463.8	465.6	467.6	471.0	470.2	472.2	476.2	476.9	478.2	482.1
27.5°	441.2	444.6	447.2	448.5	453.1	450.5	452.5	457.1	456.4	457.8	461.0
30°	418.1	421.5	424.1	424.1	428.1	428.1	430.0	432.0	432.0	433.4	436.0
32.5°	391.1	395.1	395.1	397.1	399.8	397.1	399.8	402.4	401.0	403.0	405.0
35°	360.1	362.1	362.8	362.8	364.8	364.1	363.4	365.4	364.1	367.4	369.4
37.5°	322.5	325.1	323.9	325.1	324.5	322.5	322.5	325.9	323.2	323.9	325.9
40°	286.2	286.2	285.6	282.2	283.0	281.0	280.4	281.0	278.4	277.8	280.4
42.5°	248.6	248.0	246.0	241.4	242.1	238.8	236.1	236.1	234.9	234.1	234.9
45°	215.0	213.0	209.8	204.5	203.1	200.5	195.2	193.9	192.0	192.0	192.6
47.5°	184.0	181.4	176.1	170.1	166.9	163.6	158.2	156.4	153.0	151.8	153.0
50°	158.2	153.6	147.1	138.5	135.2	131.2	126.0	122.6	119.4	118.1	117.4
52.5°	134.5	128.0	121.4	110.8	108.1	104.2	97.0	93.6	90.4	87.8	87.8
55°	114.1	108.1	99.0	89.0	85.1	81.1	73.9	69.2	66.0	64.6	63.4
57.5°	95.6	89.0	80.5	69.9	66.0	62.0	54.8	50.1	46.9	44.9	43.5
60°	80.5	73.2	64.6	55.4	50.8	46.9	39.6	35.0	31.6	29.6	28.4
62.5°	66.0	60.0	51.5	42.9	38.9	35.0	29.0	24.4	21.1	19.8	17.8
65°	55.4	49.5	41.5	34.2	31.0	27.0	21.8	17.8	15.1	13.2	11.9
67.5°	44.9	40.2	33.6	27.0	23.8	21.1	16.5	13.2	10.5	9.2	8.6
70°	35.6	31.0	25.8	20.5	18.5	15.9	12.5	9.2	7.9	6.6	5.9
72.5°	26.4	23.1	19.1	15.1	13.2	11.9	8.6	7.2	5.2	4.6	4.0
75°	19.1	16.5	13.9	10.5	9.2	8.6	6.6	4.6	4.0	3.2	2.6
77.5°	13.2	11.9	9.2	7.2	6.6	5.9	4.6	3.2	2.6	2.0	2.0
80°	8.6	7.2	5.9	4.6	4.6	4.0	2.6	2.0	2.0	1.4	1.4
82.5°	5.2	4.6	4.0	3.2	2.6	2.6	2.0	1.4	1.4	0.6	0.6
85°	3.2	2.6	2.0	2.0	1.4	1.4	1.4	0.6	0.6	0.6	0.6
87.5°	1.4	1.4	1.4	0.6	0.6	0.6	0.6	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: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	545.5	545.5	546.8	544.9	546.1	546.1	547.5	544.9	546.1	546.8	548.1
5°	542.9	543.5	544.9	544.1	544.9	544.9	546.1	542.9	545.5	545.5	547.5
7.5°	540.2	540.2	541.5	540.9	542.1	542.9	544.1	541.5	544.1	544.1	546.1
10°	536.9	536.9	538.9	538.2	540.2	540.9	542.9	540.2	542.9	543.5	545.5
12.5°	532.2	533.0	534.9	534.9	536.9	538.2	540.2	538.9	542.1	542.9	545.5
15°	527.0	528.4	531.0	530.2	532.2	534.2	536.9	534.9	539.5	540.9	543.5
17.5°	520.4	521.8	523.8	523.8	525.8	527.0	530.2	529.0	533.0	533.6	536.9
20°	510.5	512.5	515.1	514.5	516.5	517.8	520.4	519.1	523.0	524.4	527.6
22.5°	498.6	500.0	502.0	502.0	503.9	505.2	507.9	505.9	509.9	510.5	513.1
25°	482.9	484.1	485.5	486.1	488.1	488.8	490.1	488.8	492.0	492.8	496.0
27.5°	462.4	463.0	465.0	465.0	466.4	467.0	469.0	466.4	471.0	471.0	472.9
30°	438.0	437.2	440.0	438.6	440.0	440.0	441.9	440.6	443.9	442.6	444.6
32.5°	405.6	407.0	407.0	405.6	408.2	407.6	407.6	406.2	408.2	409.0	410.2
35°	368.0	370.0	370.0	370.8	371.4	369.4	370.0	366.1	369.4	370.0	370.8
37.5°	327.1	325.1	326.5	324.5	327.9	323.9	323.9	321.2	323.9	323.9	324.5
40°	280.4	279.6	281.0	279.6	279.0	278.4	277.0	275.0	277.8	276.4	278.4
42.5°	236.1	235.5	235.5	234.1	233.5	233.5	232.1	230.9	230.2	230.2	233.5
45°	190.6	192.0	190.6	190.0	191.2	190.0	190.6	188.0	189.2	188.0	189.2
47.5°	152.4	153.0	151.8	150.4	152.4	150.4	150.4	148.4	151.0	151.0	149.8
50°	118.1	117.4	116.1	117.4	116.8	116.8	116.8	114.8	116.1	114.1	115.4
52.5°	87.1	86.4	86.4	85.8	86.4	85.8	85.8	85.1	85.1	84.4	85.1
55°	63.4	62.6	61.4	61.4	61.4	62.0	61.4	60.6	60.6	60.0	60.6
57.5°	42.9	41.5	41.5	41.5	41.5	40.9	40.9	40.2	40.9	40.2	40.9
60°	27.8	27.8	26.4	26.4	26.4	26.4	26.4	25.8	26.4	26.4	26.4
62.5°	17.1	17.1	16.5	15.9	16.5	15.9	15.9	15.9	16.5	15.9	16.5
65°	11.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	7.9	7.2	7.2	7.2	7.2	7.2	7.2	6.6	7.2	7.2	7.2
70°	5.2	5.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P252244

CATALOG NUMBER: LE_6B10D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	546.1
2.5°	546.1	546.8	545.5	546.1	544.9	546.1	546.8	548.1
5°	544.9	545.5	544.1	545.5	544.1	545.5	546.1	547.5
7.5°	543.5	544.9	543.5	544.9	543.5	544.9	545.5	546.8
10°	543.5	545.5	544.1	546.1	544.1	545.5	546.8	547.5
12.5°	543.5	545.5	544.9	546.1	545.5	546.8	548.1	549.5
15°	542.1	544.1	542.9	544.9	544.1	544.9	547.5	547.5
17.5°	534.9	536.9	536.9	538.2	538.2	540.2	541.5	542.9
20°	525.8	527.6	527.0	529.0	529.0	531.0	532.2	533.6
22.5°	511.9	514.5	513.9	515.8	515.1	516.5	519.1	518.5
25°	494.0	497.4	496.6	498.0	497.4	497.4	498.6	499.2
27.5°	472.2	474.2	473.6	474.9	473.6	474.9	476.2	476.9
30°	443.9	445.2	444.6	445.2	444.6	445.9	446.5	447.9
32.5°	409.6	411.6	409.6	410.9	410.2	410.2	412.9	411.6
35°	368.8	369.4	370.0	370.0	368.8	369.4	370.8	370.8
37.5°	323.2	326.5	322.5	324.5	323.9	323.9	323.9	325.9
40°	275.8	276.4	275.0	275.0	275.0	274.4	277.0	276.4
42.5°	230.9	231.5	230.9	228.9	229.5	229.5	231.5	228.9
45°	187.4	188.6	188.0	188.0	186.6	186.6	187.4	186.0
47.5°	148.4	149.8	147.8	148.4	147.1	148.4	147.8	149.1
50°	112.8	114.1	113.5	114.1	114.1	112.8	114.8	112.1
52.5°	84.4	85.1	84.4	83.8	83.1	83.1	84.4	83.8
55°	60.0	59.4	59.4	59.4	60.0	60.0	59.4	58.8
57.5°	40.2	40.2	39.6	39.6	40.2	38.9	39.6	38.9
60°	25.8	25.8	25.8	25.8	25.1	25.8	25.8	25.8
62.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
65°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	6.6	7.2	7.2	7.2	6.6	6.6	6.6	6.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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)