

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: P252556

Luminaire Tested: **LD6B10D010 EU6B10209730 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252556
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: io LED
Catalog Number: LD6B10D010 EU6B10209730 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

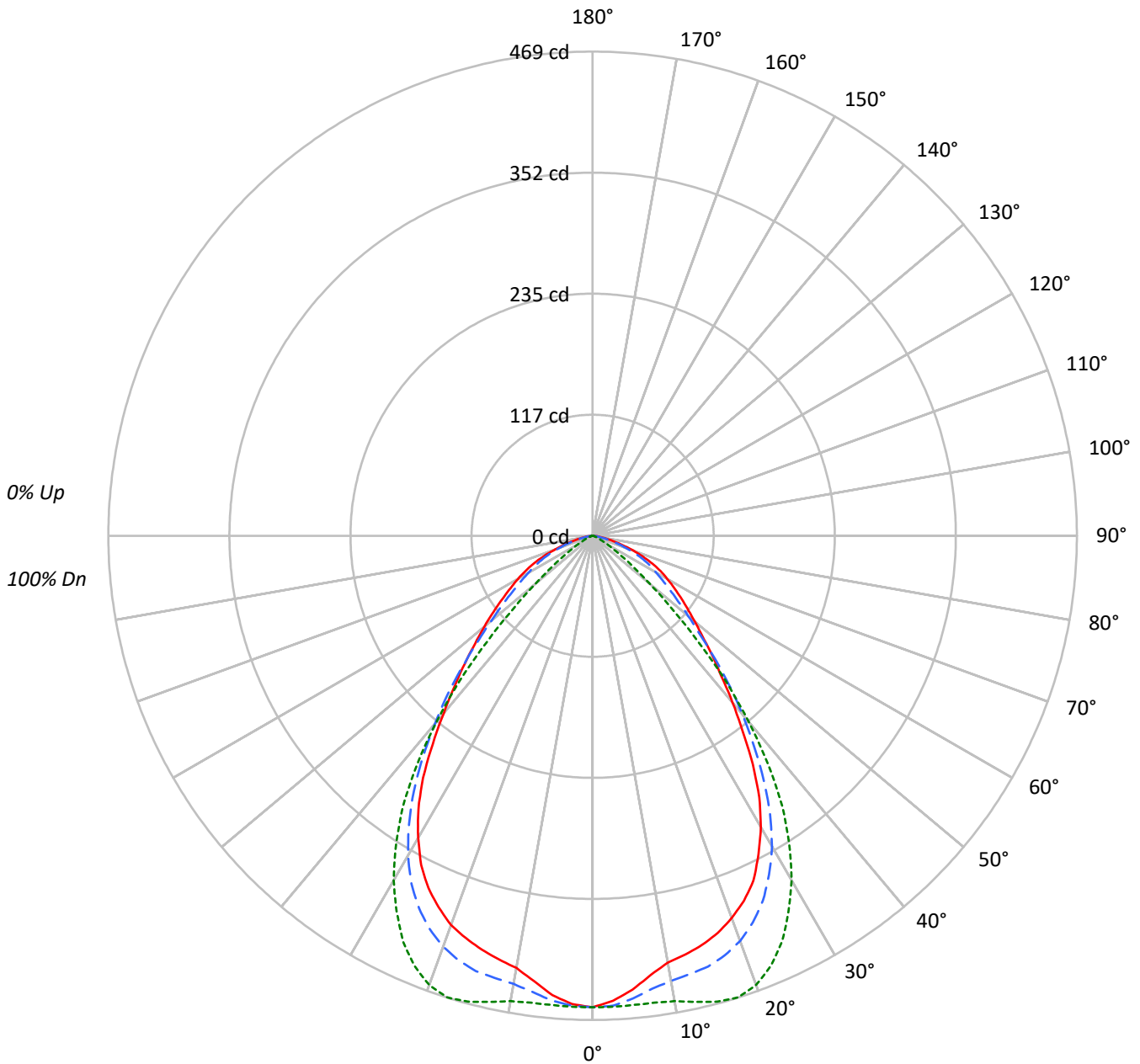
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29795	29795	29795
5°	28907	29876	29254
10°	27804	30321	28155
15°	27706	31556	28030
20°	27348	32145	27854
25°	26526	31242	27095
30°	24544	29033	25455
35°	21528	25526	22794
40°	17944	20005	19111
45°	15104	13203	16128
50°	13073	7237	13875
55°	11829	3845	12125
60°	10882	1996	10882
65°	9864	1065	9617
70°	7954	610	7344
75°	5445	403	5067
80°	3569	188	3156
85°	2395	374	1946



TEST NUMBER: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	5.4
10°-20°	123.1	15.6
20°-30°	181.9	23.0
30°-40°	183.8	23.2
40°-50°	126.7	16.0
50°-60°	72.7	9.2
60°-70°	42.3	5.4
70°-80°	15.4	2.0
80°-90°	2.4	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°	347.7	44.0
0°-40°	531.4	67.2
0°-60°	730.9	92.4
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	441	450	456	452	447	41
15°	410	432	467	437	415	116
25°	368	390	434	398	376	168
35°	270	289	320	302	286	168
45°	164	166	143	176	175	127
55°	104	91	34	95	107	94
65°	64	54	7	53	62	63
75°	22	17	2	17	20	24
85°	3	2	0	2	3	4
90°	0	0	0	0	0	



TEST NUMBER: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	450.9	451.4	451.9	451.4	451.9	454.0	452.5	453.5	453.5	454.0	455.6
5°	441.4	441.4	442.4	441.9	443.5	445.6	444.0	445.6	446.1	447.2	449.8
7.5°	429.2	429.2	429.8	429.8	431.9	434.0	432.9	435.0	437.1	439.3	442.4
10°	419.7	420.8	420.8	421.3	423.4	426.1	425.5	428.2	430.3	433.5	437.7
12.5°	415.5	416.0	416.0	417.1	419.2	421.8	421.3	424.0	427.1	430.8	435.0
15°	410.2	411.3	410.8	411.8	413.9	416.6	416.0	418.7	422.4	426.1	431.9
17.5°	403.4	403.9	404.4	404.4	406.5	408.6	408.6	411.3	415.5	419.7	426.1
20°	393.9	394.9	394.9	395.4	397.0	400.2	399.7	402.3	406.5	410.8	417.6
22.5°	382.8	383.3	383.3	383.8	386.5	388.0	388.6	390.7	394.4	399.1	405.5
25°	368.5	369.0	368.5	370.1	371.2	374.3	373.3	375.9	380.1	383.8	390.2
27.5°	347.9	349.0	349.0	349.5	352.1	354.8	354.8	357.4	361.1	363.8	370.1
30°	325.8	327.3	325.8	328.4	329.4	331.6	333.1	334.7	337.9	341.6	347.4
32.5°	300.4	299.9	300.4	301.5	304.6	306.2	307.3	308.9	312.0	315.2	319.9
35°	270.3	271.4	271.9	274.0	274.0	276.7	277.2	278.2	283.0	285.1	288.8
37.5°	238.6	239.7	240.2	241.3	243.4	244.4	246.0	247.6	250.8	254.5	256.6
40°	210.7	210.7	211.2	212.2	213.8	214.4	215.9	218.0	220.2	223.3	225.4
42.5°	184.3	184.8	184.3	185.3	186.9	189.0	188.5	191.1	191.6	193.8	195.3
45°	163.7	163.7	162.6	163.7	163.7	165.8	165.3	166.3	165.8	166.8	165.8
47.5°	144.1	144.7	144.1	144.7	144.7	144.7	145.2	144.1	144.7	143.1	139.9
50°	128.8	129.3	128.3	128.8	128.3	127.8	128.3	126.7	126.2	124.1	120.9
52.5°	115.6	115.1	114.6	114.6	114.6	114.0	113.5	111.9	110.3	108.2	104.5
55°	104.0	103.5	103.0	103.0	101.9	101.4	101.4	99.8	98.2	95.6	91.3
57.5°	93.4	92.9	92.4	92.4	91.9	90.8	90.8	89.2	87.1	83.9	80.2
60°	83.4	83.4	83.4	82.9	82.9	81.8	81.8	80.2	78.1	75.0	70.7
62.5°	74.4	73.9	73.9	73.9	73.9	73.4	72.9	71.8	69.7	66.5	62.8
65°	63.9	63.9	63.9	63.9	63.4	63.4	63.4	61.8	60.7	57.5	53.9
67.5°	52.3	52.3	52.3	52.3	51.7	52.3	52.3	51.2	50.2	47.0	43.8
70°	41.7	41.2	40.7	41.2	40.7	40.7	41.2	40.1	39.6	37.0	33.8
72.5°	30.6	31.1	30.6	30.6	30.6	30.1	30.6	30.1	29.0	26.9	24.8
75°	21.6	22.2	22.2	21.6	21.6	21.6	21.1	21.1	20.1	18.5	17.4
77.5°	14.8	14.8	14.8	14.8	14.3	14.3	14.3	13.7	13.2	12.1	11.1
80°	9.5	9.5	9.5	9.5	9.0	9.0	9.0	8.4	8.4	7.4	6.3
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.3	5.3	4.8	4.2	3.7
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.1	1.6
87.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1
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: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	454.6	455.1	455.1	455.1	456.7	457.2	455.6	454.0	457.2	456.7	457.7
5°	449.3	450.9	451.9	452.5	454.0	455.1	453.5	453.0	455.6	456.2	456.7
7.5°	443.0	445.6	448.2	449.3	451.4	452.5	451.9	451.9	455.1	456.2	456.2
10°	438.7	442.4	445.6	448.2	450.9	452.5	452.5	453.0	456.7	457.7	458.8
12.5°	437.7	442.4	446.7	450.3	452.5	455.1	455.6	457.2	460.9	462.5	462.5
15°	435.0	441.4	446.7	451.4	454.6	457.7	458.8	462.0	466.2	467.2	468.3
17.5°	430.3	436.6	443.0	448.8	453.0	455.6	458.8	462.0	467.2	468.8	469.4
20°	421.8	429.2	435.6	441.4	445.6	449.3	452.5	456.2	460.9	463.0	463.5
22.5°	409.2	416.6	422.9	429.2	433.5	436.6	439.8	444.0	448.8	450.9	450.9
25°	393.9	400.7	407.6	412.3	416.6	420.3	421.8	426.6	431.3	434.0	434.0
27.5°	374.3	380.7	387.0	392.3	394.9	398.1	400.7	404.9	408.6	410.8	412.9
30°	349.5	355.8	361.7	366.9	370.1	373.3	375.9	379.1	382.8	385.4	385.9
32.5°	322.6	327.9	333.7	338.9	342.1	343.2	345.8	349.0	352.1	354.3	354.8
35°	293.0	296.7	300.4	305.2	308.3	308.3	311.0	313.1	315.7	320.5	319.4
37.5°	258.2	263.5	266.1	267.7	269.8	271.9	272.4	275.1	278.2	279.3	280.9
40°	225.4	227.0	228.6	228.6	230.7	230.7	230.7	231.2	234.4	234.9	237.1
42.5°	192.7	192.7	191.1	189.5	190.1	189.5	186.9	186.9	188.5	190.6	190.6
45°	162.1	158.4	153.6	149.9	147.3	146.2	143.1	143.1	142.5	143.1	145.2
47.5°	136.2	129.9	122.0	114.6	111.9	109.8	105.1	103.0	101.9	102.4	103.5
50°	114.6	107.7	98.7	89.8	85.0	82.4	76.6	72.9	72.3	71.3	73.4
52.5°	98.7	90.3	80.8	70.2	65.5	61.2	54.9	51.7	49.6	49.6	50.2
55°	85.0	76.0	65.5	54.9	50.2	47.0	40.7	36.4	34.3	33.8	35.4
57.5°	73.4	64.9	54.4	43.8	39.1	35.4	29.0	25.3	23.8	22.7	23.2
60°	64.4	56.0	45.4	35.4	31.1	26.9	21.6	17.4	15.3	15.3	15.8
62.5°	56.0	48.0	38.5	29.0	25.3	21.6	15.8	12.1	10.6	10.0	10.6
65°	47.5	40.1	32.2	24.3	20.6	17.4	12.7	9.5	7.4	6.9	7.4
67.5°	38.5	32.7	25.9	19.5	16.4	13.7	9.5	6.9	5.3	4.8	5.3
70°	30.1	24.8	19.5	14.3	12.1	10.0	6.9	5.3	3.7	3.2	3.7
72.5°	21.6	18.0	13.7	10.0	8.4	6.9	4.8	3.7	2.6	2.1	2.6
75°	14.8	12.1	9.0	6.3	5.3	4.8	3.2	2.1	1.6	1.6	1.6
77.5°	9.5	7.4	5.8	4.2	3.2	2.6	1.6	1.1	1.1	1.1	1.1
80°	5.3	4.2	3.2	2.1	1.6	1.6	1.1	1.1	0.5	0.5	0.5
82.5°	3.2	2.1	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
85°	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.5	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: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	455.6	456.2	454.6	456.7	455.1	457.2	457.2	455.1	455.6	454.6	456.7
5°	454.6	454.6	453.5	455.1	453.0	455.1	454.6	450.9	451.9	449.8	451.9
7.5°	454.6	453.5	451.9	453.5	450.9	452.5	450.3	446.7	445.6	443.0	443.0
10°	456.2	454.6	452.5	453.0	450.3	450.9	447.7	442.4	440.8	437.7	436.6
12.5°	459.9	458.3	455.1	456.2	452.5	452.5	448.2	441.9	438.7	434.5	433.5
15°	465.1	462.5	458.8	459.3	455.6	453.5	448.2	440.8	436.6	430.8	429.2
17.5°	466.2	463.5	458.8	458.8	454.0	451.4	445.1	436.6	431.3	425.5	422.4
20°	460.4	457.7	452.5	451.9	447.7	444.0	437.1	428.7	423.4	417.1	414.4
22.5°	448.2	445.1	440.3	439.8	435.6	433.5	426.1	417.6	412.3	406.0	403.9
25°	430.3	428.7	424.0	423.4	419.7	417.1	410.8	402.8	398.1	391.7	389.6
27.5°	409.2	407.6	402.8	402.8	398.6	397.0	391.2	383.8	380.1	374.3	371.7
30°	383.8	381.7	379.1	378.5	374.9	373.3	368.0	361.1	357.4	352.7	351.6
32.5°	353.7	352.1	350.6	350.0	346.3	344.8	341.1	334.2	331.0	326.8	325.2
35°	318.9	317.8	316.2	315.7	314.1	312.6	308.9	303.6	302.0	298.8	297.2
37.5°	278.8	279.8	278.8	278.8	277.2	277.7	274.5	271.4	269.8	267.7	266.6
40°	235.5	237.6	239.2	239.2	238.6	240.7	240.2	237.6	237.1	236.0	235.5
42.5°	191.6	192.7	195.9	198.0	197.5	202.7	203.3	205.4	207.0	205.9	206.4
45°	145.7	148.9	153.1	155.2	157.9	164.7	168.4	172.6	176.3	178.4	177.9
47.5°	105.1	108.8	113.5	116.7	121.4	129.9	139.4	144.7	149.9	152.6	155.2
50°	76.0	79.7	85.5	90.3	93.4	105.1	115.1	122.0	127.8	131.5	134.1
52.5°	53.3	57.5	63.9	68.1	72.9	83.9	95.6	103.5	109.8	114.6	117.2
55°	37.0	41.7	47.5	51.7	57.0	68.6	79.7	88.2	95.0	99.3	102.4
57.5°	25.9	30.1	35.9	39.6	44.9	56.0	67.1	75.5	82.4	86.6	90.3
60°	17.4	21.6	27.5	31.1	35.4	46.5	56.5	65.5	71.8	76.0	79.7
62.5°	12.1	15.8	21.6	25.3	29.0	38.5	48.0	56.0	62.3	67.1	70.2
65°	9.5	12.7	17.4	20.6	24.3	32.2	40.1	47.0	53.3	58.1	60.2
67.5°	6.9	10.0	13.7	16.4	19.0	25.9	32.7	38.0	43.8	47.5	50.2
70°	4.8	6.9	10.0	12.1	14.3	19.5	24.8	29.6	33.8	36.4	38.5
72.5°	3.7	4.8	6.9	8.4	10.0	13.7	18.0	21.6	24.8	26.9	29.0
75°	2.1	3.2	4.8	5.8	6.9	9.5	12.1	14.8	16.9	18.5	19.5
77.5°	1.1	1.6	2.6	3.2	4.2	5.8	7.9	9.5	11.1	12.1	13.2
80°	1.1	1.1	1.6	1.6	2.1	3.2	4.2	5.3	6.3	7.4	7.9
82.5°	0.5	0.5	1.1	1.1	1.1	1.6	2.1	3.2	3.7	4.2	4.8
85°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	2.1	2.6	2.6
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6
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: P252556

CATALOG NUMBER: LD6B10D010 EU6B10209730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	455.1	456.2	455.6	456.7	455.1	454.6	455.6	454.0
5°	449.3	449.8	449.3	449.3	448.2	447.2	448.2	446.7
7.5°	440.3	440.3	438.7	438.7	436.6	435.6	435.6	435.0
10°	432.9	431.3	429.8	430.3	427.1	426.1	425.5	425.0
12.5°	429.2	428.2	425.5	425.5	422.4	421.3	420.8	420.3
15°	425.0	422.9	420.8	420.3	417.6	416.6	416.0	415.0
17.5°	417.6	416.0	413.4	413.4	410.8	410.2	409.2	408.6
20°	409.7	407.6	405.5	405.5	402.3	402.3	400.7	401.2
22.5°	398.6	397.0	394.9	394.9	392.3	391.7	390.2	389.6
25°	385.4	383.3	381.7	381.2	379.1	378.0	377.5	376.4
27.5°	368.0	366.4	364.8	363.8	361.1	360.6	359.0	359.5
30°	346.3	345.3	344.8	343.7	340.5	339.5	339.5	337.9
32.5°	322.6	321.0	319.9	318.4	315.7	315.2	313.6	314.1
35°	293.5	291.4	289.8	290.4	287.2	286.7	285.6	286.2
37.5°	263.5	261.3	259.2	258.7	256.1	256.1	254.5	254.5
40°	232.3	230.2	229.1	229.1	226.0	226.5	224.9	224.4
42.5°	204.3	202.2	201.7	201.2	199.6	199.0	197.5	198.0
45°	177.9	177.4	177.4	176.3	174.8	174.2	174.8	174.8
47.5°	154.7	155.2	154.7	154.7	153.6	154.7	153.6	154.2
50°	135.2	136.2	136.2	136.2	135.7	136.2	136.2	136.7
52.5°	118.8	120.4	119.8	120.4	119.8	120.9	120.4	120.9
55°	104.5	105.6	106.1	106.6	106.6	106.6	106.6	106.6
57.5°	91.3	92.9	93.4	94.0	94.0	95.0	94.0	94.0
60°	80.8	82.4	82.9	83.4	83.4	83.9	82.9	83.4
62.5°	71.3	72.9	72.9	73.4	73.4	73.4	72.3	72.9
65°	61.8	62.3	62.8	62.8	62.3	62.3	61.8	62.3
67.5°	51.2	51.7	51.2	51.2	50.7	50.7	49.6	50.2
70°	39.6	39.6	40.1	39.6	39.1	39.6	39.1	38.5
72.5°	29.6	29.6	29.6	29.0	29.0	28.5	29.0	29.0
75°	20.1	20.1	20.6	20.6	20.6	20.6	20.1	20.1
77.5°	13.2	13.2	13.2	13.2	13.7	13.2	13.2	13.2
80°	8.4	8.4	9.0	9.0	8.4	8.4	8.4	8.4
82.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
85°	3.2	3.2	3.2	3.2	2.6	2.6	2.6	2.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1
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)