

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: P136484

Luminaire Tested: **LD6A10D010TE ERW6A10927 6LW121LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23360)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A10D010TE ERW6A10927 6LW121LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1049.3 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.14
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

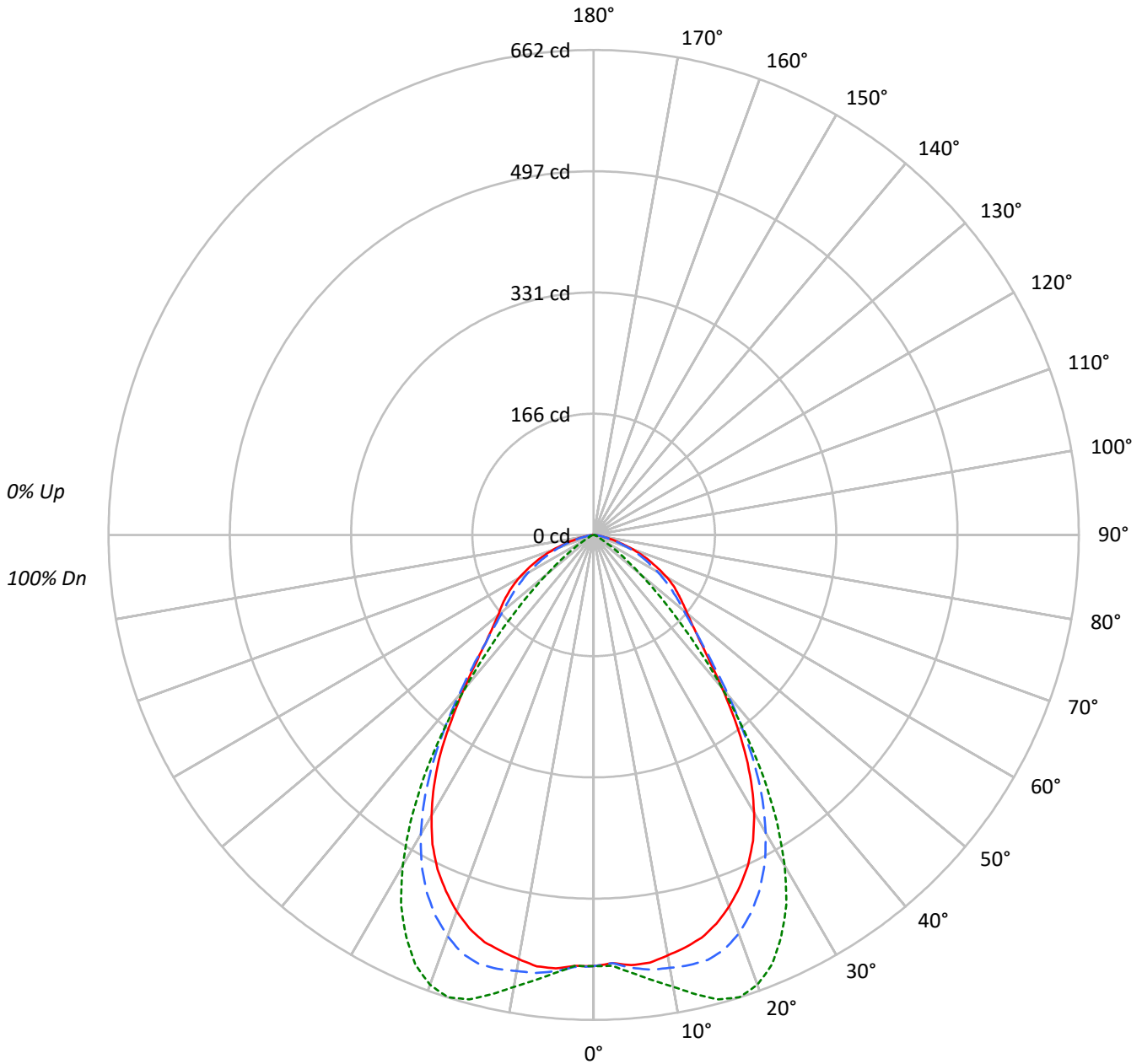
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

Luminous Intensity Polar Plot





TEST NUMBER: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

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				100				
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89				
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79				
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70				70				
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63				63				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56				
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51				51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39				
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36				36				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38414	38414	38414
5°	38606	39300	38901
10°	38609	41497	38960
15°	38452	44335	38857
20°	37491	45364	37963
25°	35841	43573	36280
30°	32988	39264	33327
35°	28592	32176	29014
40°	23157	23157	23480
45°	18914	14688	19265
50°	16919	8384	17224
55°	15981	4265	16493
60°	14992	1853	15384
65°	13091	1050	13569
70°	10587	858	11025
75°	7386	580	7562
80°	4508	263	4508
85°	2246	524	2246



TEST NUMBER: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	5.5
10°-20°	171.6	16.4
20°-30°	249.7	23.8
30°-40°	237.3	22.6
40°-50°	153.7	14.7
50°-60°	96.4	9.2
60°-70°	57.7	5.5
70°-80°	22.5	2.1
80°-90°	3.1	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°	478.6	45.6
0°-40°	715.9	68.2
0°-60°	966.0	92.1
0°-90°	1049.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	589	589	589	589	589	
5°	590	593	600	598	594	56
15°	569	601	656	606	575	160
25°	498	536	605	538	504	228
35°	359	383	404	385	364	222
45°	205	208	159	209	209	162
55°	140	129	38	131	145	126
65°	85	74	7	76	88	84
75°	29	26	2	26	30	33
85°	3	3	1	3	3	4
90°	0	0	0	0	0	



TEST NUMBER: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	585.0	581.3	591.8	585.8	586.6	594.0	588.1	585.8	593.3	585.0	588.8
5°	589.5	586.6	597.1	591.8	592.6	600.1	594.9	592.6	600.8	593.3	597.1
7.5°	588.8	586.6	596.3	591.8	592.6	601.6	596.3	595.6	605.3	598.5	603.9
10°	582.8	579.8	590.3	586.6	588.1	597.8	593.3	593.3	604.6	600.1	607.6
12.5°	576.8	573.8	584.3	581.3	582.8	593.3	590.3	591.8	604.6	601.6	611.4
15°	569.3	566.3	577.5	574.6	576.0	587.3	585.8	587.3	601.6	600.8	612.1
17.5°	556.5	555.0	564.8	563.3	564.8	576.0	575.3	577.5	593.3	593.3	607.6
20°	540.0	537.8	548.2	546.8	547.5	558.8	558.8	561.0	577.5	579.1	593.3
22.5°	520.5	518.9	529.5	527.2	528.8	539.2	539.2	541.5	557.2	559.5	574.6
25°	497.9	496.5	506.2	505.5	506.2	516.7	515.9	518.9	534.0	535.5	549.8
27.5°	470.9	468.6	478.4	478.4	479.2	488.9	488.9	490.4	504.0	505.5	518.9
30°	437.9	435.6	444.6	445.3	445.3	455.1	455.1	455.9	468.6	469.4	481.4
32.5°	400.3	400.3	407.0	407.8	407.8	416.9	417.6	417.6	428.8	428.8	438.6
35°	359.0	359.8	365.0	365.7	366.5	374.7	374.7	374.0	383.8	383.0	391.3
37.5°	314.7	314.7	319.9	320.7	320.7	328.2	328.2	327.5	335.7	333.4	339.5
40°	271.9	271.9	276.4	277.9	277.1	283.1	283.1	282.4	288.4	285.4	288.4
42.5°	234.4	235.8	238.9	239.6	238.9	244.1	243.4	242.6	247.1	242.6	243.4
45°	205.0	206.6	208.8	209.6	208.8	212.5	211.8	210.3	212.5	208.0	205.8
47.5°	183.2	184.0	187.7	187.0	186.3	189.3	189.3	186.3	187.0	181.0	176.5
50°	166.7	167.4	170.5	170.5	169.0	171.9	170.5	167.4	166.7	160.0	153.2
52.5°	153.2	153.9	157.0	157.0	155.5	157.7	156.2	151.7	150.9	144.2	136.0
55°	140.5	141.2	144.2	144.2	142.7	144.2	141.9	138.2	136.7	129.2	120.2
57.5°	129.2	128.4	130.7	130.7	129.2	129.9	128.4	124.7	121.6	114.9	105.9
60°	114.9	114.2	115.7	115.7	114.2	114.9	113.4	108.9	107.4	100.6	91.6
62.5°	99.1	99.1	100.6	100.6	99.1	99.1	98.4	93.9	92.4	86.4	78.9
65°	84.8	84.8	86.4	86.4	84.8	85.6	84.1	81.2	79.6	74.4	67.6
67.5°	70.6	70.6	71.3	71.3	70.6	70.6	69.9	67.6	65.4	61.6	55.5
70°	55.5	55.5	56.4	56.4	55.5	55.5	55.5	53.3	52.6	48.8	44.3
72.5°	41.3	41.3	42.0	42.0	42.0	42.8	42.0	40.6	39.0	36.8	33.0
75°	29.3	29.3	29.3	30.0	29.3	29.3	30.0	28.5	27.8	25.5	23.3
77.5°	19.6	19.6	19.6	19.6	19.6	20.3	19.6	19.6	18.8	17.3	15.8
80°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	11.3	9.7
82.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.0	5.2
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	588.1	588.8	588.8	591.1	593.3	587.3	590.3	588.8	587.3	593.3	589.5
5°	597.8	598.5	598.5	601.6	604.6	597.8	600.8	600.1	598.5	603.9	600.1
7.5°	605.3	607.6	609.1	612.9	616.6	610.6	614.3	612.9	612.1	617.4	612.1
10°	610.6	615.1	617.4	623.3	628.6	622.6	627.8	626.4	625.6	630.1	624.1
12.5°	616.6	622.6	628.6	635.3	642.9	637.6	644.3	642.1	642.1	645.9	638.4
15°	620.4	627.8	636.1	645.9	654.9	651.1	658.7	656.4	656.4	659.4	651.1
17.5°	616.6	626.4	636.1	647.4	657.9	655.6	663.9	661.7	660.9	663.9	654.2
20°	603.9	615.1	626.4	637.6	649.7	648.1	657.2	653.4	654.2	655.6	645.9
22.5°	583.6	595.6	606.8	618.8	630.1	629.4	637.6	635.3	634.6	636.9	626.4
25°	559.5	570.1	580.5	591.1	602.3	600.8	609.1	605.3	606.1	606.8	597.8
27.5°	527.2	537.0	545.3	554.3	564.8	562.6	570.8	569.3	567.0	567.8	560.3
30°	487.5	495.7	501.7	509.2	517.5	515.2	522.7	521.2	519.7	519.7	515.2
32.5°	442.4	448.4	452.1	457.3	463.4	461.1	467.2	465.6	464.1	464.1	461.1
35°	392.1	395.7	395.7	398.8	403.3	399.5	404.8	404.0	401.8	402.5	401.8
37.5°	337.2	338.7	335.7	335.7	338.7	333.4	338.0	338.0	335.7	336.4	336.4
40°	283.8	283.1	277.1	274.1	274.1	268.9	272.6	271.9	270.4	271.1	272.6
42.5°	236.6	232.1	223.8	217.8	216.3	210.3	212.5	211.8	210.3	211.8	214.1
45°	196.7	188.5	177.3	169.0	165.2	159.2	160.0	159.2	158.4	160.0	163.8
47.5°	165.2	153.9	139.7	129.2	123.9	117.1	117.1	116.4	116.4	120.2	122.5
50°	140.5	127.0	110.4	98.4	90.9	84.8	83.4	82.6	83.4	86.4	90.9
52.5°	121.6	105.1	87.1	74.4	66.1	59.3	57.8	57.1	57.8	60.9	65.4
55°	105.1	87.9	69.1	54.8	45.8	39.8	37.5	37.5	37.5	41.3	45.8
57.5°	90.1	72.9	54.1	39.8	31.6	25.5	23.3	22.5	24.1	26.3	30.8
60°	77.4	60.9	42.8	30.0	21.8	16.5	14.2	14.2	14.2	17.3	21.8
62.5°	66.1	51.0	34.5	22.5	15.8	11.3	9.0	9.0	9.7	11.3	15.8
65°	56.4	43.6	29.3	19.6	12.8	9.0	7.5	6.8	7.5	9.0	12.8
67.5°	46.5	36.1	24.8	16.5	11.3	7.5	6.8	6.0	6.0	8.3	10.6
70°	36.8	28.5	20.3	13.5	9.0	6.0	5.2	4.5	5.2	6.8	9.0
72.5°	27.8	21.8	15.1	10.6	6.8	5.2	3.8	3.8	3.8	5.2	6.8
75°	19.6	15.8	11.3	7.5	4.5	3.0	3.0	2.3	3.0	3.8	4.5
77.5°	12.8	10.6	7.5	4.5	3.0	2.3	1.5	1.5	1.5	2.3	3.0
80°	8.3	6.8	4.5	3.0	2.3	1.5	0.7	0.7	0.7	1.5	1.5
82.5°	4.5	3.8	2.3	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
85°	2.3	1.5	1.5	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7
87.5°	0.7	0.0	0.0	0.0	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: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	590.3	588.1	591.1	593.3	592.6	590.3	594.0	588.1	590.3	588.1	584.3
5°	600.8	598.5	600.8	602.3	601.6	597.8	600.8	595.6	597.1	594.0	590.3
7.5°	612.1	609.1	609.8	610.6	608.4	603.1	605.3	598.5	599.4	595.6	591.1
10°	622.6	618.1	617.4	615.9	611.4	604.6	605.3	597.1	596.3	591.1	585.8
12.5°	636.1	628.6	625.6	622.6	615.9	606.8	605.3	595.6	594.0	588.1	582.0
15°	645.9	637.6	632.4	626.4	617.4	606.1	603.1	591.8	588.8	582.0	576.0
17.5°	648.1	637.6	630.1	622.6	612.1	598.5	594.0	582.0	578.3	570.8	564.8
20°	638.4	627.1	618.8	609.1	598.5	582.8	578.3	565.5	561.0	554.3	548.2
22.5°	619.6	606.8	598.5	588.8	578.3	563.3	558.1	546.0	541.5	534.7	528.8
25°	592.6	580.5	572.3	563.3	553.6	538.5	534.0	522.7	518.9	512.2	506.2
27.5°	555.0	543.7	539.2	530.2	521.2	508.5	504.0	494.2	490.4	485.9	479.2
30°	509.9	500.2	497.9	489.7	483.0	471.7	467.9	459.6	455.9	452.1	446.1
32.5°	458.2	450.6	450.6	443.9	439.4	430.4	427.3	420.5	417.6	414.6	409.3
35°	399.5	394.3	397.3	392.8	390.5	384.6	382.3	377.0	374.7	372.5	367.3
37.5°	337.2	333.4	339.5	340.2	340.2	335.0	333.4	330.5	328.9	326.7	322.2
40°	275.7	274.8	283.8	285.4	289.9	286.9	287.6	285.4	283.8	282.4	279.3
42.5°	218.6	221.5	232.8	239.6	244.1	244.1	246.3	245.6	244.8	243.4	241.1
45°	169.7	175.7	189.3	197.6	206.6	208.8	212.5	212.5	213.3	212.5	210.3
47.5°	129.9	139.0	154.7	167.4	177.3	181.8	187.0	188.5	189.3	189.3	187.7
50°	98.4	109.6	127.7	141.9	155.5	161.5	167.4	169.7	172.8	171.9	170.5
52.5°	74.4	87.1	106.7	123.9	138.2	145.0	151.7	154.7	157.7	157.7	157.0
55°	54.8	68.3	89.4	107.4	122.5	130.7	137.4	140.5	144.2	145.0	144.2
57.5°	39.8	53.3	73.6	93.1	107.4	116.4	123.2	126.1	129.9	130.7	130.7
60°	29.3	42.8	62.3	80.3	93.9	102.9	108.1	111.9	114.9	116.4	116.4
62.5°	22.5	34.5	52.6	69.1	81.2	88.6	93.9	96.8	99.9	100.6	101.3
65°	18.8	29.3	44.3	58.6	69.1	75.8	80.3	83.4	85.6	86.4	86.4
67.5°	15.8	24.8	36.8	48.1	57.1	62.3	66.1	68.3	70.6	71.3	71.3
70°	12.8	19.6	29.3	38.3	45.1	49.6	52.6	54.8	56.4	56.4	56.4
72.5°	9.7	15.1	21.8	28.5	33.8	37.5	39.8	40.6	42.0	42.0	42.0
75°	6.8	10.6	15.8	20.3	23.3	26.3	27.8	28.5	29.3	30.0	29.3
77.5°	4.5	6.8	9.7	12.8	15.8	17.3	18.0	18.8	19.6	19.6	19.6
80°	3.0	4.5	6.0	8.3	9.7	10.6	11.3	11.3	12.0	12.0	12.0
82.5°	1.5	2.3	3.8	4.5	5.2	6.0	6.0	6.0	6.8	6.8	6.0
85°	0.7	0.7	1.5	2.3	2.3	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P136484

CATALOG NUMBER: LD6A10D010TE ERW6A10927 6LW121LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	588.8	588.8	588.8	588.8
2.5°	585.8	587.3	581.3	588.8
5°	591.1	592.6	586.6	594.0
7.5°	591.8	592.6	586.6	594.0
10°	586.6	586.6	580.5	588.1
12.5°	582.0	581.3	574.6	582.0
15°	575.3	574.6	567.8	575.3
17.5°	564.0	563.3	556.5	563.3
20°	546.8	546.0	540.0	546.8
22.5°	527.9	526.5	520.5	526.5
25°	506.2	504.7	498.7	504.0
27.5°	478.4	476.9	470.9	476.2
30°	445.3	443.1	438.6	442.4
32.5°	407.8	406.3	401.1	405.6
35°	366.5	364.3	360.5	364.3
37.5°	321.5	319.9	316.2	318.5
40°	277.9	277.1	274.1	275.7
42.5°	240.3	238.9	236.6	238.0
45°	210.3	209.6	207.3	208.8
47.5°	187.7	187.0	184.8	186.3
50°	171.2	170.5	169.0	169.7
52.5°	157.7	157.0	155.5	157.7
55°	145.7	145.0	142.7	145.0
57.5°	132.2	131.5	129.2	132.2
60°	117.1	117.1	114.9	117.9
62.5°	102.2	102.2	100.6	102.9
65°	87.9	87.1	86.4	87.9
67.5°	72.1	71.3	71.3	72.9
70°	57.1	56.4	56.4	57.8
72.5°	42.8	42.0	42.0	42.8
75°	30.0	29.3	29.3	30.0
77.5°	19.6	19.6	19.6	19.6
80°	12.0	12.0	12.0	12.0
82.5°	6.8	6.8	6.0	6.8
85°	3.0	3.0	3.0	3.0
87.5°	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)