

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: P252250

Luminaire Tested: **LE_6B15D010 EC6B10209024 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252250
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_6B15D010 EC6B10209024 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1223.8 lumens
Efficiency: N/A
Efficacy: 85.0 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

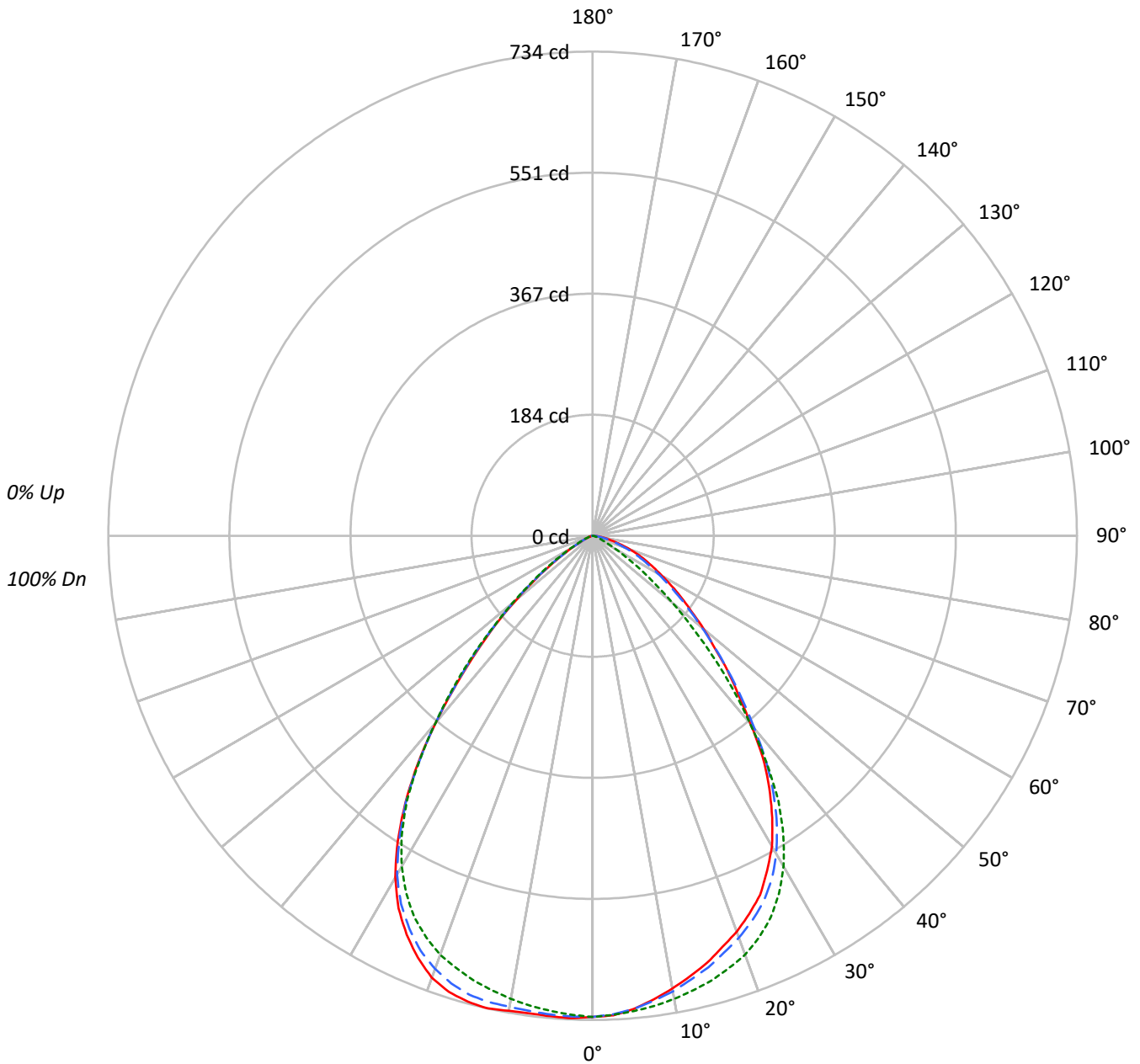
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

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	112	108	105	102	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°	47587	47587	47587
5°	47140	47362	47886
10°	46168	47221	48440
15°	45280	47131	49387
20°	44350	46919	49488
25°	43249	45984	48007
30°	40944	43603	45057
35°	37186	39089	39432
40°	31733	31588	31435
45°	26664	23657	22918
50°	22268	16016	15204
55°	18745	9827	8917
60°	15867	5167	4489
65°	13739	2717	2177
70°	11426	1679	1164
75°	8444	1109	655
80°	6612	676	338
85°	5240	674	0



TEST NUMBER: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	5.6
10°-20°	196.8	16.1
20°-30°	290.7	23.8
30°-40°	299.5	24.5
40°-50°	206.9	16.9
50°-60°	102.0	8.3
60°-70°	41.3	3.4
70°-80°	14.7	1.2
80°-90°	3.0	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°	556.2	45.5
0°-40°	855.8	69.9
0°-60°	1164.7	95.2
0°-90°	1223.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	729	729	729	729	729	
5°	720	720	723	728	731	68
15°	670	678	698	721	731	189
25°	601	612	639	657	667	275
35°	467	478	491	493	495	289
45°	289	291	256	253	248	223
55°	165	159	86	81	78	149
65°	89	80	18	14	14	88
75°	34	28	4	3	3	38
85°	7	5	1	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	727.6	725.0	726.8	723.2	727.6	723.2	724.1	725.0	724.1	725.0	725.9
5°	719.8	717.1	719.8	715.4	719.8	717.1	717.1	718.0	718.0	718.9	719.8
7.5°	709.1	706.5	709.1	704.8	710.0	707.4	707.4	709.1	708.2	709.1	710.9
10°	696.9	693.2	696.0	693.2	698.6	695.1	696.9	696.9	696.9	699.5	701.2
12.5°	683.6	680.1	683.6	679.2	684.5	681.9	682.8	685.4	686.2	688.0	688.9
15°	670.4	666.0	667.8	665.1	670.4	667.8	668.6	672.1	672.1	674.8	677.5
17.5°	653.6	650.1	653.6	650.1	654.5	652.8	654.5	657.2	657.2	659.9	662.5
20°	638.8	635.1	637.8	635.1	640.5	637.8	638.8	642.2	643.1	645.8	648.4
22.5°	620.2	617.5	619.2	616.6	622.0	620.2	621.1	624.6	625.5	627.2	631.6
25°	600.8	595.5	598.1	596.4	601.8	599.0	600.8	604.4	606.1	608.8	612.2
27.5°	572.6	570.0	571.8	571.8	576.1	573.5	574.4	577.9	580.5	583.2	587.6
30°	543.5	539.1	540.9	541.8	545.2	543.5	545.2	548.9	549.8	553.2	556.8
32.5°	506.5	504.8	508.2	506.5	508.2	508.2	509.2	511.9	513.6	515.4	519.8
35°	466.9	463.4	466.9	465.1	469.5	466.9	469.5	472.2	472.2	475.8	478.4
37.5°	423.8	419.4	421.1	421.1	422.9	422.0	422.0	426.4	427.2	429.9	432.5
40°	372.6	370.9	374.4	373.5	374.4	374.4	375.2	377.9	379.8	380.6	381.5
42.5°	326.9	327.8	328.6	328.6	328.6	328.6	328.6	332.1	331.2	333.9	334.8
45°	289.0	285.4	287.2	286.2	289.0	286.2	289.0	291.6	289.9	292.5	290.8
47.5°	250.2	250.2	250.2	249.2	251.1	250.2	252.0	252.9	252.9	252.9	252.0
50°	219.4	216.8	217.6	217.6	218.5	217.6	219.4	220.2	220.2	218.5	215.0
52.5°	189.4	188.5	188.5	190.2	190.2	189.4	189.4	189.4	189.4	186.8	185.0
55°	164.8	163.0	163.9	163.9	163.9	163.9	164.8	163.9	163.9	161.2	158.6
57.5°	142.8	141.0	141.0	141.0	141.9	141.0	141.0	141.0	140.1	137.4	133.9
60°	121.6	120.8	121.6	121.6	122.5	121.6	121.6	121.6	119.8	117.1	113.6
62.5°	104.0	104.0	104.0	104.9	104.9	104.0	104.0	103.1	102.2	98.6	95.1
65°	89.0	88.1	89.0	89.0	89.9	89.9	89.0	88.1	87.2	83.8	80.1
67.5°	74.0	73.1	74.0	74.0	74.9	74.0	74.0	74.0	71.4	69.6	66.1
70°	59.9	59.0	59.0	59.0	59.9	58.1	59.0	59.0	57.2	54.6	51.1
72.5°	45.8	45.8	45.8	45.8	45.8	45.8	44.9	44.9	43.1	40.5	38.8
75°	33.5	33.5	34.4	34.4	33.5	33.5	33.5	32.6	31.8	30.0	28.2
77.5°	24.6	24.6	24.6	24.6	23.8	23.8	23.8	22.9	22.0	21.1	19.4
80°	17.6	17.6	17.6	16.8	17.6	16.8	16.8	16.8	15.0	14.1	13.2
82.5°	12.4	11.5	11.5	11.5	11.5	11.5	11.5	10.6	10.6	9.8	8.8
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.1	5.2	5.2
87.5°	3.5	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5	3.5	2.6
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: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	725.9	725.9	727.6	725.0	729.4	726.8	725.9	730.2	727.6	726.8	728.5
5°	719.8	720.6	721.5	719.8	724.1	721.5	721.5	725.9	724.1	723.2	725.9
7.5°	711.8	712.8	714.5	713.6	717.1	715.4	716.2	720.6	718.9	718.9	721.5
10°	702.1	703.9	705.6	705.6	710.0	708.2	708.2	713.6	711.8	712.8	716.2
12.5°	690.6	693.2	696.0	696.9	701.2	698.6	699.5	705.6	704.8	705.6	709.1
15°	678.4	681.9	684.5	684.5	689.8	687.1	689.8	696.0	694.2	697.8	702.1
17.5°	664.2	667.8	671.2	672.1	677.5	675.8	679.2	685.4	685.4	687.1	692.4
20°	651.0	655.4	657.2	659.9	665.1	664.2	666.0	673.0	673.0	675.8	681.0
22.5°	633.4	637.8	641.4	644.0	648.4	648.4	651.0	657.2	657.2	659.0	664.2
25°	614.0	619.2	622.0	624.6	629.0	628.1	630.8	636.0	636.9	638.8	644.0
27.5°	589.4	593.8	597.2	599.0	605.2	601.8	604.4	610.5	609.6	611.4	615.8
30°	558.5	562.9	566.5	566.5	571.8	571.8	574.4	577.0	577.0	578.8	582.2
32.5°	522.4	527.8	527.8	530.4	533.9	530.4	533.9	537.4	535.6	538.2	540.9
35°	481.0	483.6	484.5	484.5	487.1	486.2	485.4	488.0	486.2	490.8	493.4
37.5°	430.8	434.2	432.5	434.2	433.4	430.8	430.8	435.2	431.6	432.5	435.2
40°	382.4	382.4	381.5	377.0	377.9	375.2	374.4	375.2	371.8	370.9	374.4
42.5°	332.1	331.2	328.6	322.4	323.2	318.9	315.4	315.4	313.6	312.8	313.6
45°	287.2	284.5	280.1	273.1	271.4	267.8	260.8	259.0	256.4	256.4	257.2
47.5°	245.8	242.2	235.2	227.2	222.9	218.5	211.4	208.8	204.4	202.6	204.4
50°	211.4	205.2	196.5	185.0	180.6	175.2	168.2	163.9	159.5	157.8	156.8
52.5°	179.8	170.9	162.1	148.0	144.5	139.2	129.5	125.1	120.8	117.1	117.1
55°	152.4	144.5	132.1	118.9	113.6	108.4	98.6	92.5	88.1	86.4	84.6
57.5°	127.8	118.9	107.5	93.4	88.1	82.8	73.1	67.0	62.5	59.9	58.1
60°	107.5	97.8	86.4	74.0	67.9	62.5	52.9	46.8	42.2	39.6	37.9
62.5°	88.1	80.1	68.8	57.2	52.0	46.8	38.8	32.6	28.2	26.4	23.8
65°	74.0	66.1	55.5	45.8	41.4	36.1	29.1	23.8	20.2	17.6	15.9
67.5°	59.9	53.8	44.9	36.1	31.8	28.2	22.0	17.6	14.1	12.4	11.5
70°	47.6	41.4	34.4	27.2	24.6	21.1	16.8	12.4	10.6	8.8	7.9
72.5°	35.2	30.9	25.5	20.2	17.6	15.9	11.5	9.8	7.0	6.1	5.2
75°	25.5	22.0	18.5	14.1	12.4	11.5	8.8	6.1	5.2	4.4	3.5
77.5°	17.6	15.9	12.4	9.8	8.8	7.9	6.1	4.4	3.5	2.6	2.6
80°	11.5	9.8	7.9	6.1	6.1	5.2	3.5	2.6	2.6	1.8	1.8
82.5°	7.0	6.1	5.2	4.4	3.5	3.5	2.6	1.8	1.8	0.9	0.9
85°	4.4	3.5	2.6	2.6	1.8	1.8	1.8	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	728.5	728.5	730.2	727.6	729.4	729.4	731.2	727.6	729.4	730.2	732.1
5°	725.0	725.9	727.6	726.8	727.6	727.6	729.4	725.0	728.5	728.5	731.2
7.5°	721.5	721.5	723.2	722.4	724.1	725.0	726.8	723.2	726.8	726.8	729.4
10°	717.1	717.1	719.8	718.9	721.5	722.4	725.0	721.5	725.0	725.9	728.5
12.5°	710.9	711.8	714.5	714.5	717.1	718.9	721.5	719.8	724.1	725.0	728.5
15°	703.9	705.6	709.1	708.2	710.9	713.6	717.1	714.5	720.6	722.4	725.9
17.5°	695.1	696.9	699.5	699.5	702.1	703.9	708.2	706.5	711.8	712.8	717.1
20°	681.9	684.5	688.0	687.1	689.8	691.5	695.1	693.2	698.6	700.4	704.8
22.5°	666.0	667.8	670.4	670.4	673.0	674.8	678.4	675.8	681.0	681.9	685.4
25°	644.9	646.6	648.4	649.2	651.9	652.8	654.5	652.8	657.2	658.1	662.5
27.5°	617.5	618.4	621.1	621.1	622.9	623.8	626.4	622.9	629.0	629.0	631.6
30°	585.0	584.1	587.6	585.9	587.6	587.6	590.2	588.5	592.9	591.1	593.8
32.5°	541.8	543.5	543.5	541.8	545.2	544.4	544.4	542.6	545.2	546.2	548.0
35°	491.6	494.2	494.2	495.1	496.0	493.4	494.2	488.9	493.4	494.2	495.1
37.5°	437.0	434.2	436.1	433.4	437.9	432.5	432.5	429.0	432.5	432.5	433.4
40°	374.4	373.5	375.2	373.5	372.6	371.8	370.0	367.4	370.9	369.1	371.8
42.5°	315.4	314.5	314.5	312.8	311.9	311.9	310.1	308.4	307.5	307.5	311.9
45°	254.6	256.4	254.6	253.8	255.5	253.8	254.6	251.1	252.9	251.1	252.9
47.5°	203.5	204.4	202.6	200.9	203.5	200.9	200.9	198.2	201.8	201.8	200.0
50°	157.8	156.8	155.0	156.8	155.9	155.9	155.9	153.2	155.0	152.4	154.1
52.5°	116.2	115.4	115.4	114.5	115.4	114.5	114.5	113.6	113.6	112.8	113.6
55°	84.6	83.8	81.9	81.9	81.9	82.8	81.9	81.0	81.0	80.1	81.0
57.5°	57.2	55.5	55.5	55.5	55.5	54.6	54.6	53.8	54.6	53.8	54.6
60°	37.0	37.0	35.2	35.2	35.2	35.2	35.2	34.4	35.2	35.2	35.2
62.5°	22.9	22.9	22.0	21.1	22.0	21.1	21.1	21.1	22.0	21.1	22.0
65°	15.0	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	10.6	9.8	9.8	9.8	9.8	9.8	9.8	8.8	9.8	9.8	9.8
70°	7.0	7.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P252250

CATALOG NUMBER: LE_6B15D010 EC6B10209024 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	729.4	730.2	728.5	729.4	727.6	729.4	730.2	732.1
5°	727.6	728.5	726.8	728.5	726.8	728.5	729.4	731.2
7.5°	725.9	727.6	725.9	727.6	725.9	727.6	728.5	730.2
10°	725.9	728.5	726.8	729.4	726.8	728.5	730.2	731.2
12.5°	725.9	728.5	727.6	729.4	728.5	730.2	732.1	733.9
15°	724.1	726.8	725.0	727.6	726.8	727.6	731.2	731.2
17.5°	714.5	717.1	717.1	718.9	718.9	721.5	723.2	725.0
20°	702.1	704.8	703.9	706.5	706.5	709.1	710.9	712.8
22.5°	683.6	687.1	686.2	688.9	688.0	689.8	693.2	692.4
25°	659.9	664.2	663.4	665.1	664.2	664.2	666.0	666.9
27.5°	630.8	633.4	632.5	634.2	632.5	634.2	636.0	636.9
30°	592.9	594.6	593.8	594.6	593.8	595.5	596.4	598.1
32.5°	547.1	549.8	547.1	548.9	548.0	548.0	551.5	549.8
35°	492.5	493.4	494.2	494.2	492.5	493.4	495.1	495.1
37.5°	431.6	436.1	430.8	433.4	432.5	432.5	432.5	435.2
40°	368.2	369.1	367.4	367.4	367.4	366.5	370.0	369.1
42.5°	308.4	309.2	308.4	305.8	306.6	306.6	309.2	305.8
45°	250.2	252.0	251.1	251.1	249.2	249.2	250.2	248.4
47.5°	198.2	200.0	197.4	198.2	196.5	198.2	197.4	199.1
50°	150.6	152.4	151.5	152.4	152.4	150.6	153.2	149.8
52.5°	112.8	113.6	112.8	111.9	111.0	111.0	112.8	111.9
55°	80.1	79.2	79.2	79.2	80.1	80.1	79.2	78.4
57.5°	53.8	53.8	52.9	52.9	53.8	52.0	52.9	52.0
60°	34.4	34.4	34.4	34.4	33.5	34.4	34.4	34.4
62.5°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
65°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	8.8	9.8	9.8	9.8	8.8	8.8	8.8	8.8
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)