

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: P252257

Luminaire Tested: **LE_6B15D010 EC6B10209730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252257
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 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: 1263.8 lumens
Efficiency: N/A
Efficacy: 87.8 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

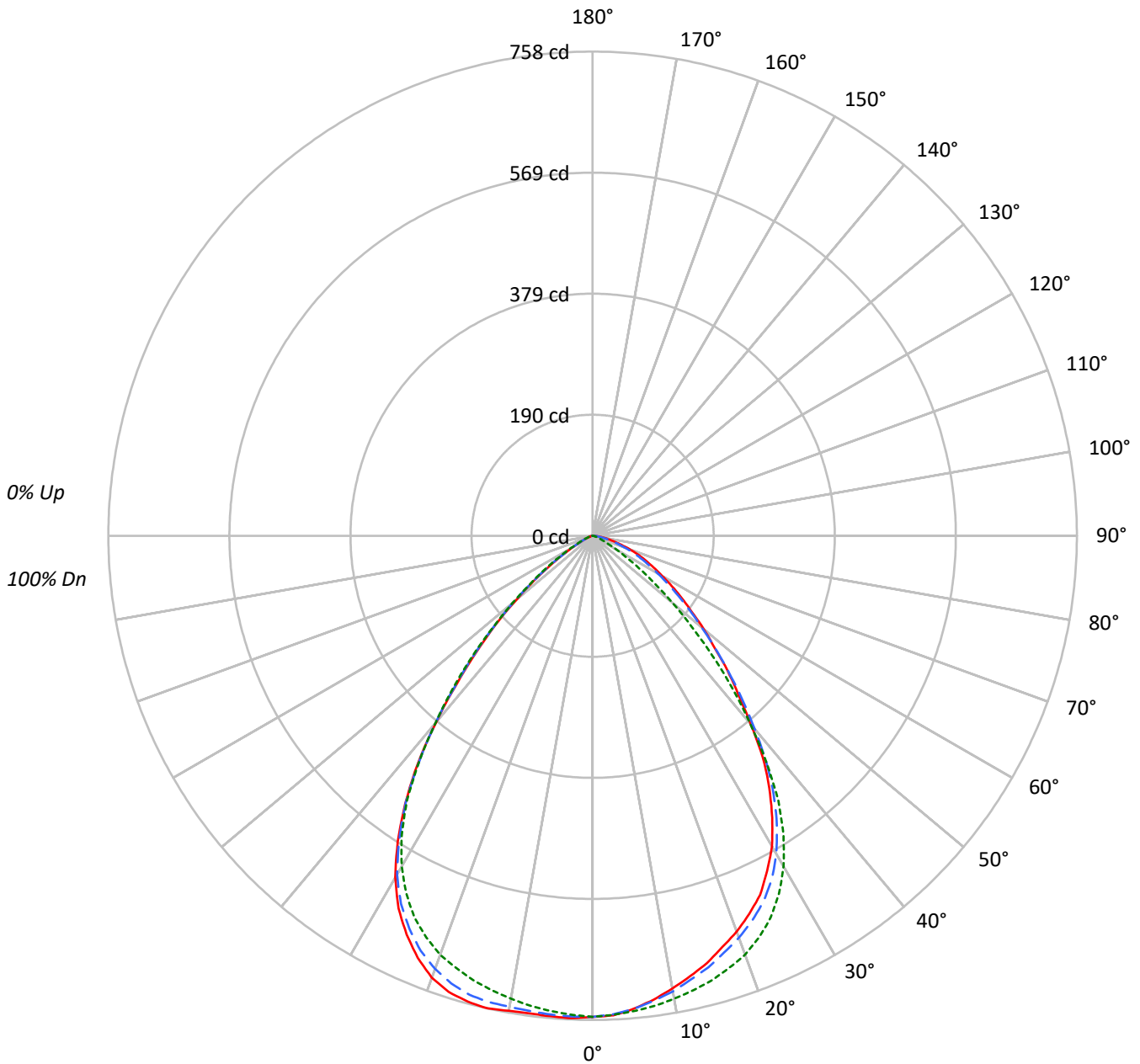
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252257

CATALOG NUMBER: LE_6B15D010 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	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°	49139	49139	49139
5°	48672	48914	49451
10°	47671	48758	50023
15°	46766	48664	51001
20°	45794	48447	51099
25°	44667	47481	49569
30°	42292	45034	46541
35°	38396	40364	40714
40°	32780	32618	32457
45°	27532	24432	23666
50°	22989	16534	15691
55°	19348	10135	9213
60°	16375	5350	4632
65°	14187	2810	2238
70°	11807	1736	1221
75°	8722	1134	706
80°	6838	714	338
85°	5390	674	0



TEST NUMBER: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	5.6
10°-20°	203.3	16.1
20°-30°	300.2	23.8
30°-40°	309.3	24.5
40°-50°	213.7	16.9
50°-60°	105.3	8.3
60°-70°	42.7	3.4
70°-80°	15.2	1.2
80°-90°	3.1	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°	574.4	45.5
0°-40°	883.8	69.9
0°-60°	1202.7	95.2
0°-90°	1263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	753	753	753	753	753	
5°	743	743	747	752	755	70
15°	692	700	720	744	755	195
25°	620	632	660	679	689	284
35°	482	494	507	510	511	299
45°	298	300	265	261	256	231
55°	170	164	89	84	81	154
65°	92	83	18	14	14	91
75°	35	29	4	3	3	39
85°	7	6	1	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	751.5	748.8	750.5	746.9	751.5	746.9	747.9	748.8	747.9	748.8	749.6
5°	743.2	740.5	743.2	738.8	743.2	740.5	740.5	741.5	741.5	742.4	743.2
7.5°	732.4	729.6	732.4	727.8	733.2	730.5	730.5	732.4	731.5	732.4	734.1
10°	719.6	716.0	718.8	716.0	721.4	717.8	719.6	719.6	719.6	722.4	724.1
12.5°	706.0	702.4	706.0	701.4	706.9	704.1	705.0	707.8	708.8	710.5	711.4
15°	692.4	687.8	689.6	686.9	692.4	689.6	690.5	694.1	694.1	696.9	699.6
17.5°	675.0	671.4	675.0	671.4	676.0	674.1	676.0	678.6	678.6	681.4	684.1
20°	659.6	655.9	658.6	655.9	661.4	658.6	659.6	663.2	664.1	666.9	669.6
22.5°	640.5	637.8	639.5	636.9	642.2	640.5	641.4	645.0	645.9	647.8	652.2
25°	620.5	615.0	617.8	615.9	621.4	618.6	620.5	624.1	625.9	628.6	632.2
27.5°	591.4	588.6	590.4	590.4	595.0	592.2	593.1	596.8	599.5	602.2	606.8
30°	561.4	556.8	558.6	559.5	563.1	561.4	563.1	566.8	567.6	571.4	575.0
32.5°	523.1	521.2	524.9	523.1	524.9	524.9	525.9	528.6	530.4	532.2	536.8
35°	482.1	478.5	482.1	480.4	484.9	482.1	484.9	487.6	487.6	491.2	494.0
37.5°	437.6	433.0	434.9	434.9	436.6	435.8	435.8	440.4	441.2	444.0	446.6
40°	384.9	383.0	386.6	385.8	386.6	386.6	387.5	390.2	392.1	393.0	393.9
42.5°	337.5	338.4	339.4	339.4	339.4	339.4	339.4	343.0	342.1	344.8	345.8
45°	298.4	294.8	296.6	295.6	298.4	295.6	298.4	301.1	299.2	302.0	300.2
47.5°	258.4	258.4	258.4	257.5	259.2	258.4	260.2	261.1	261.1	261.1	260.2
50°	226.5	223.8	224.8	224.8	225.6	224.8	226.5	227.4	227.4	225.6	222.0
52.5°	195.6	194.6	194.6	196.5	196.5	195.6	195.6	195.6	195.6	192.9	191.0
55°	170.1	168.2	169.2	169.2	169.2	169.2	170.1	169.2	169.2	166.5	163.8
57.5°	147.4	145.5	145.5	145.5	146.5	145.5	145.5	145.5	144.6	141.9	138.2
60°	125.5	124.6	125.5	125.5	126.5	125.5	125.5	125.5	123.8	121.0	117.4
62.5°	107.4	107.4	107.4	108.2	108.2	107.4	107.4	106.5	105.5	101.9	98.2
65°	91.9	91.0	91.9	91.9	92.8	92.8	91.9	91.0	90.1	86.4	82.8
67.5°	76.4	75.5	76.4	76.4	77.4	76.4	76.4	76.4	73.8	71.9	68.2
70°	61.9	61.0	61.0	61.0	61.9	60.0	61.0	61.0	59.1	56.4	52.8
72.5°	47.2	47.2	47.2	47.2	47.2	47.2	46.4	46.4	44.6	41.9	40.0
75°	34.6	34.6	35.5	35.5	34.6	34.6	34.6	33.6	32.8	30.9	29.1
77.5°	25.5	25.5	25.5	25.5	24.6	24.6	24.6	23.6	22.8	21.9	20.0
80°	18.2	18.2	18.2	17.2	18.2	17.2	17.2	17.2	15.5	14.5	13.6
82.5°	12.8	11.9	11.9	11.9	11.9	11.9	11.9	10.9	10.9	10.0	9.1
85°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.4	5.5	5.5
87.5°	3.6	4.5	4.5	4.5	4.5	4.5	4.5	3.6	3.6	3.6	2.8
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: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	749.6	749.6	751.5	748.8	753.2	750.5	749.6	754.1	751.5	750.5	752.4
5°	743.2	744.1	745.1	743.2	747.9	745.1	745.1	749.6	747.9	746.9	749.6
7.5°	735.1	736.0	737.8	736.9	740.5	738.8	739.6	744.1	742.4	742.4	745.1
10°	725.1	726.9	728.8	728.8	733.2	731.5	731.5	736.9	735.1	736.0	739.6
12.5°	713.2	716.0	718.8	719.6	724.1	721.4	722.4	728.8	727.8	728.8	732.4
15°	700.5	704.1	706.9	706.9	712.4	709.6	712.4	718.8	716.9	720.5	725.1
17.5°	686.0	689.6	693.2	694.1	699.6	697.8	701.4	707.8	707.8	709.6	715.1
20°	672.2	676.9	678.6	681.4	686.9	686.0	687.8	695.0	695.0	697.8	703.2
22.5°	654.1	658.6	662.2	665.0	669.6	669.6	672.2	678.6	678.6	680.5	686.0
25°	634.1	639.5	642.2	645.0	649.5	648.6	651.4	656.9	657.8	659.6	665.0
27.5°	608.6	613.1	616.8	618.6	625.0	621.4	624.1	630.5	629.5	631.4	635.9
30°	576.8	581.4	585.0	585.0	590.4	590.4	593.1	595.9	595.9	597.8	601.4
32.5°	539.5	545.0	545.0	547.6	551.2	547.6	551.2	555.0	553.1	555.9	558.6
35°	496.8	499.5	500.4	500.4	503.1	502.1	501.2	504.0	502.1	506.8	509.5
37.5°	444.9	448.5	446.6	448.5	447.6	444.9	444.9	449.4	445.8	446.6	449.4
40°	394.9	394.9	393.9	389.4	390.2	387.5	386.6	387.5	383.9	383.0	386.6
42.5°	343.0	342.1	339.4	333.0	333.9	329.4	325.8	325.8	323.9	323.0	323.9
45°	296.6	293.9	289.2	282.0	280.2	276.6	269.2	267.5	264.8	264.8	265.6
47.5°	253.9	250.1	242.9	234.8	230.1	225.6	218.4	215.6	211.0	209.2	211.0
50°	218.4	212.0	202.9	191.0	186.5	181.0	173.8	169.2	164.6	162.9	161.9
52.5°	185.6	176.5	167.4	152.9	149.2	143.8	133.8	129.1	124.6	121.0	121.0
55°	157.4	149.2	136.5	122.9	117.4	111.9	101.9	95.5	91.0	89.1	87.4
57.5°	131.9	122.9	111.0	96.4	91.0	85.5	75.5	69.1	64.6	61.9	60.0
60°	111.0	101.0	89.1	76.4	70.0	64.6	54.6	48.2	43.6	41.0	39.1
62.5°	91.0	82.8	71.0	59.1	53.6	48.2	40.0	33.6	29.1	27.2	24.6
65°	76.4	68.2	57.4	47.2	42.8	37.2	30.0	24.6	20.9	18.2	16.4
67.5°	61.9	55.5	46.4	37.2	32.8	29.1	22.8	18.2	14.5	12.8	11.9
70°	49.1	42.8	35.5	28.2	25.5	21.9	17.2	12.8	10.9	9.1	8.2
72.5°	36.4	31.9	26.4	20.9	18.2	16.4	11.9	10.0	7.2	6.4	5.5
75°	26.4	22.8	19.1	14.5	12.8	11.9	9.1	6.4	5.5	4.5	3.6
77.5°	18.2	16.4	12.8	10.0	9.1	8.2	6.4	4.5	3.6	2.8	2.8
80°	11.9	10.0	8.2	6.4	6.4	5.5	3.6	2.8	2.8	1.9	1.9
82.5°	7.2	6.4	5.5	4.5	3.6	3.6	2.8	1.9	1.9	0.9	0.9
85°	4.5	3.6	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
87.5°	1.9	1.9	1.9	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: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	752.4	752.4	754.1	751.5	753.2	753.2	755.1	751.5	753.2	754.1	756.0
5°	748.8	749.6	751.5	750.5	751.5	751.5	753.2	748.8	752.4	752.4	755.1
7.5°	745.1	745.1	746.9	746.0	747.9	748.8	750.5	746.9	750.5	750.5	753.2
10°	740.5	740.5	743.2	742.4	745.1	746.0	748.8	745.1	748.8	749.6	752.4
12.5°	734.1	735.1	737.8	737.8	740.5	742.4	745.1	743.2	747.9	748.8	752.4
15°	726.9	728.8	732.4	731.5	734.1	736.9	740.5	737.8	744.1	746.0	749.6
17.5°	717.8	719.6	722.4	722.4	725.1	726.9	731.5	729.6	735.1	736.0	740.5
20°	704.1	706.9	710.5	709.6	712.4	714.1	717.8	716.0	721.4	723.2	727.8
22.5°	687.8	689.6	692.4	692.4	695.0	696.9	700.5	697.8	703.2	704.1	707.8
25°	665.9	667.8	669.6	670.5	673.2	674.1	676.0	674.1	678.6	679.6	684.1
27.5°	637.8	638.6	641.4	641.4	643.2	644.1	646.9	643.2	649.5	649.5	652.2
30°	604.1	603.1	606.8	605.0	606.8	606.8	609.5	607.8	612.2	610.5	613.1
32.5°	559.5	561.4	561.4	559.5	563.1	562.2	562.2	560.4	563.1	564.0	565.9
35°	507.6	510.4	510.4	511.2	512.2	509.5	510.4	504.9	509.5	510.4	511.2
37.5°	451.2	448.5	450.4	447.6	452.1	446.6	446.6	443.0	446.6	446.6	447.6
40°	386.6	385.8	387.5	385.8	384.9	383.9	382.1	379.4	383.0	381.1	383.9
42.5°	325.8	324.8	324.8	323.0	322.0	322.0	320.2	318.4	317.5	317.5	322.0
45°	262.9	264.8	262.9	262.0	263.9	262.0	262.9	259.2	261.1	259.2	261.1
47.5°	210.1	211.0	209.2	207.4	210.1	207.4	207.4	204.8	208.4	208.4	206.5
50°	162.9	161.9	160.1	161.9	161.0	161.0	161.0	158.2	160.1	157.4	159.2
52.5°	120.1	119.1	119.1	118.2	119.1	118.2	118.2	117.4	117.4	116.5	117.4
55°	87.4	86.4	84.6	84.6	84.6	85.5	84.6	83.8	83.8	82.8	83.8
57.5°	59.1	57.4	57.4	57.4	57.4	56.4	56.4	55.5	56.4	55.5	56.4
60°	38.2	38.2	36.4	36.4	36.4	36.4	36.4	35.5	36.4	36.4	36.4
62.5°	23.6	23.6	22.8	21.9	22.8	21.9	21.9	21.9	22.8	21.9	22.8
65°	15.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
67.5°	10.9	10.0	10.0	10.0	10.0	10.0	10.0	9.1	10.0	10.0	10.0
70°	7.2	7.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	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: P252257

CATALOG NUMBER: LE_6B15D010 EC6B10209730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	753.2	754.1	752.4	753.2	751.5	753.2	754.1	756.0
5°	751.5	752.4	750.5	752.4	750.5	752.4	753.2	755.1
7.5°	749.6	751.5	749.6	751.5	749.6	751.5	752.4	754.1
10°	749.6	752.4	750.5	753.2	750.5	752.4	754.1	755.1
12.5°	749.6	752.4	751.5	753.2	752.4	754.1	756.0	757.9
15°	747.9	750.5	748.8	751.5	750.5	751.5	755.1	755.1
17.5°	737.8	740.5	740.5	742.4	742.4	745.1	746.9	748.8
20°	725.1	727.8	726.9	729.6	729.6	732.4	734.1	736.0
22.5°	706.0	709.6	708.8	711.4	710.5	712.4	716.0	715.1
25°	681.4	686.0	685.0	686.9	686.0	686.0	687.8	688.6
27.5°	651.4	654.1	653.2	655.0	653.2	655.0	656.9	657.8
30°	612.2	614.1	613.1	614.1	613.1	615.0	615.9	617.8
32.5°	565.0	567.6	565.0	566.8	565.9	565.9	569.5	567.6
35°	508.5	509.5	510.4	510.4	508.5	509.5	511.2	511.2
37.5°	445.8	450.4	444.9	447.6	446.6	446.6	446.6	449.4
40°	380.2	381.1	379.4	379.4	379.4	378.5	382.1	381.1
42.5°	318.4	319.4	318.4	315.6	316.6	316.6	319.4	315.6
45°	258.4	260.2	259.2	259.2	257.5	257.5	258.4	256.5
47.5°	204.8	206.5	203.8	204.8	202.9	204.8	203.8	205.6
50°	155.6	157.4	156.5	157.4	157.4	155.6	158.2	154.6
52.5°	116.5	117.4	116.5	115.5	114.6	114.6	116.5	115.5
55°	82.8	81.9	81.9	81.9	82.8	82.8	81.9	81.0
57.5°	55.5	55.5	54.6	54.6	55.5	53.6	54.6	53.6
60°	35.5	35.5	35.5	35.5	34.6	35.5	35.5	35.5
62.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
65°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
67.5°	9.1	10.0	10.0	10.0	9.1	9.1	9.1	9.1
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)