

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: P252242

Luminaire Tested: **LE_6B10D010 EC6B10209050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252242
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 EC6B10209050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1070.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

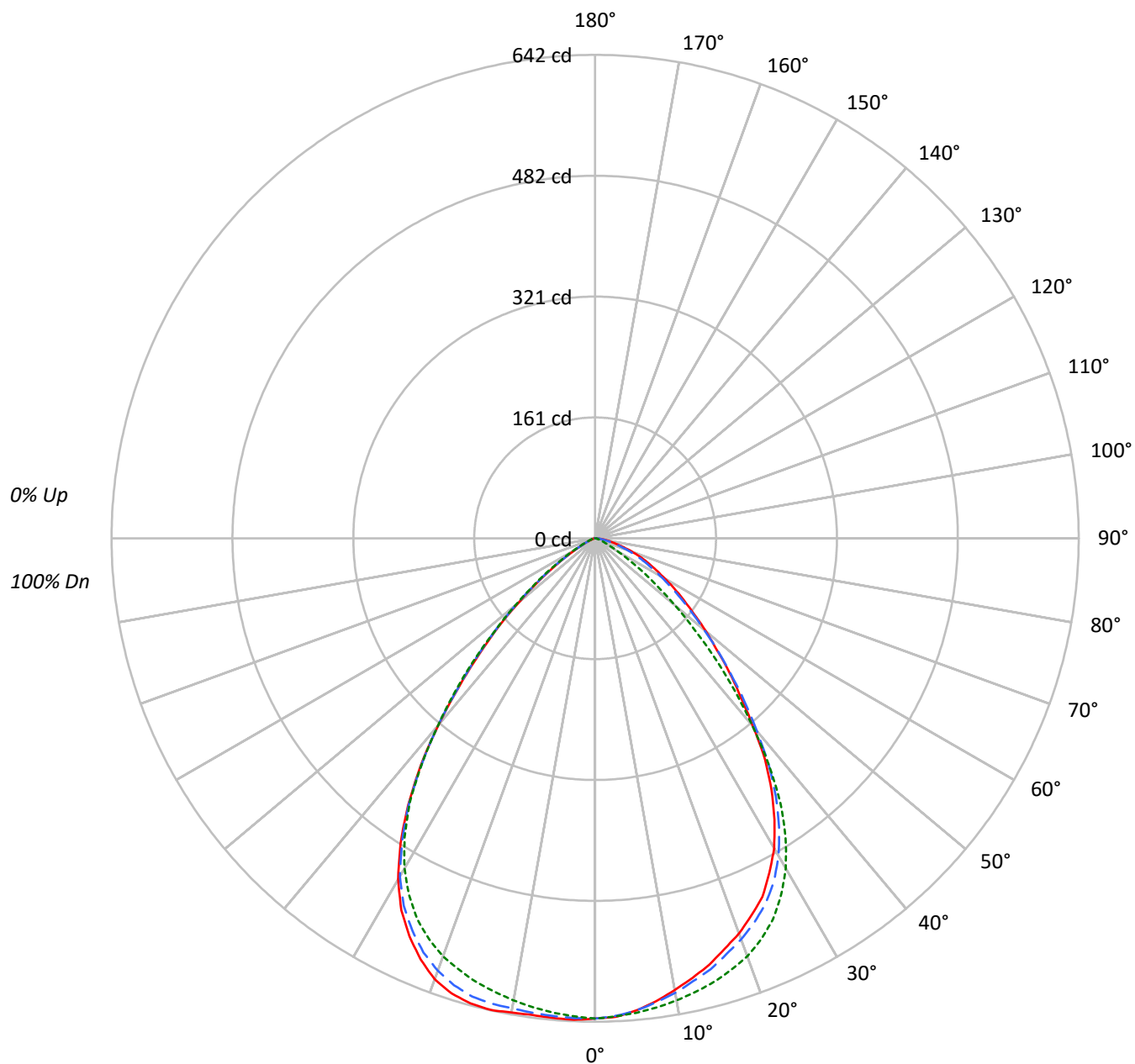
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	85	82
3	97	89	83	78		95	88	82	77		85	80	76		82	78	75		80	77	74
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	74	67	62		83	73	66	61		71	65	61		70	64	60		68	63	60
6	79	68	61	55		78	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46		68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	54	47	42		64	53	46	42		52	46	42		51	46	41		50	45	41
10	62	50	43	39		61	50	43	38		49	43	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41610	41610	41610
5°	41219	41416	41874
10°	40358	41279	42358
15°	39586	41201	43186
20°	38775	41018	43260
25°	37821	40204	41974
30°	35798	38126	39399
35°	32511	34167	34478
40°	27755	27611	27491
45°	23306	20676	20040
50°	19467	13996	13296
55°	16379	8588	7791
60°	13857	4515	3914
65°	12010	2377	1914
70°	9995	1488	1030
75°	7360	983	555
80°	5786	564	301
85°	4566	599	0



TEST NUMBER: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	5.6
10°-20°	172.1	16.1
20°-30°	254.1	23.8
30°-40°	261.9	24.5
40°-50°	180.9	16.9
50°-60°	89.2	8.3
60°-70°	36.1	3.4
70°-80°	12.9	1.2
80°-90°	2.7	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°	486.4	45.5
0°-40°	748.3	69.9
0°-60°	1018.3	95.2
0°-90°	1070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	638	638	638	638	638	
5°	629	629	632	637	639	59
15°	586	592	610	630	639	165
25°	525	535	558	575	583	240
35°	408	418	429	431	433	253
45°	253	254	224	221	217	195
55°	144	139	76	71	68	130
65°	78	70	15	12	12	77
75°	29	25	4	2	2	33
85°	6	5	1	0	0	8
90°	0	0	0	0	0	



TEST NUMBER: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	636.2	633.9	635.5	632.4	636.2	632.4	633.1	633.9	633.1	633.9	634.8
5°	629.4	627.0	629.4	625.5	629.4	627.0	627.0	627.8	627.8	628.5	629.4
7.5°	620.1	617.8	620.1	616.2	620.9	618.5	618.5	620.1	619.2	620.1	621.6
10°	609.2	606.2	608.5	606.2	610.9	607.8	609.2	609.2	609.2	611.6	613.1
12.5°	597.8	594.6	597.8	593.9	598.5	596.2	597.0	599.2	600.0	601.6	602.4
15°	586.1	582.4	583.9	581.5	586.1	583.9	584.6	587.8	587.8	590.0	592.4
17.5°	571.5	568.5	571.5	568.5	572.4	570.8	572.4	574.6	574.6	576.9	579.2
20°	558.5	555.4	557.6	555.4	560.0	557.6	558.5	561.5	562.2	564.6	566.9
22.5°	542.2	540.0	541.5	539.2	543.9	542.2	543.0	546.1	546.9	548.4	552.2
25°	525.4	520.8	523.0	521.5	526.1	523.8	525.4	528.4	530.0	532.2	535.4
27.5°	500.6	498.4	499.9	499.9	503.8	501.5	502.2	505.2	507.6	509.9	513.8
30°	475.2	471.4	473.0	473.8	476.8	475.2	476.8	479.9	480.6	483.8	486.8
32.5°	442.9	441.4	444.5	442.9	444.5	444.5	445.2	447.5	449.1	450.6	454.5
35°	408.2	405.1	408.2	406.8	410.5	408.2	410.5	412.9	412.9	416.0	418.2
37.5°	370.5	366.6	368.2	368.2	369.8	369.0	369.0	372.8	373.6	375.9	378.2
40°	325.9	324.2	327.4	326.6	327.4	327.4	328.1	330.5	332.0	332.8	333.5
42.5°	285.8	286.5	287.2	287.2	287.2	287.2	287.2	290.4	289.6	291.9	292.8
45°	252.6	249.6	251.1	250.4	252.6	250.4	252.6	255.0	253.4	255.8	254.2
47.5°	218.8	218.8	218.8	218.0	219.5	218.8	220.2	221.1	221.1	221.1	220.2
50°	191.8	189.5	190.2	190.2	191.0	190.2	191.8	192.6	192.6	191.0	188.0
52.5°	165.6	164.9	164.9	166.4	166.4	165.6	165.6	165.6	165.6	163.2	161.8
55°	144.0	142.5	143.2	143.2	143.2	143.2	144.0	143.2	143.2	141.0	138.6
57.5°	124.8	123.2	123.2	123.2	124.0	123.2	123.2	123.2	122.5	120.1	117.1
60°	106.2	105.5	106.2	106.2	107.1	106.2	106.2	106.2	104.8	102.5	99.4
62.5°	90.9	90.9	90.9	91.6	91.6	90.9	90.9	90.1	89.4	86.2	83.2
65°	77.8	77.0	77.8	77.8	78.6	78.6	77.8	77.0	76.2	73.1	70.1
67.5°	64.8	63.9	64.8	64.8	65.5	64.8	64.8	64.8	62.4	60.9	57.8
70°	52.4	51.6	51.6	51.6	52.4	50.9	51.6	51.6	50.1	47.8	44.6
72.5°	40.0	40.0	40.0	40.0	40.0	40.0	39.2	39.2	37.8	35.4	33.9
75°	29.2	29.2	30.0	30.0	29.2	29.2	29.2	28.5	27.8	26.2	24.6
77.5°	21.6	21.6	21.6	21.6	20.8	20.8	20.8	20.0	19.2	18.5	17.0
80°	15.4	15.4	15.4	14.6	15.4	14.6	14.6	14.6	13.1	12.4	11.5
82.5°	10.8	10.0	10.0	10.0	10.0	10.0	10.0	9.2	9.2	8.5	7.8
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.4	4.6	4.6
87.5°	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.1	3.1	3.1	2.2
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: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	634.8	634.8	636.2	633.9	637.8	635.5	634.8	638.5	636.2	635.5	637.0
5°	629.4	630.1	630.9	629.4	633.1	630.9	630.9	634.8	633.1	632.4	634.8
7.5°	622.4	623.1	624.8	623.9	627.0	625.5	626.2	630.1	628.5	628.5	630.9
10°	613.9	615.5	617.0	617.0	620.9	619.2	619.2	623.9	622.4	623.1	626.2
12.5°	603.9	606.2	608.5	609.2	613.1	610.9	611.6	617.0	616.2	617.0	620.1
15°	593.1	596.2	598.5	598.5	603.1	600.9	603.1	608.5	607.0	610.0	613.9
17.5°	580.8	583.9	587.0	587.8	592.4	590.8	593.9	599.2	599.2	600.9	605.4
20°	569.2	573.1	574.6	576.9	581.5	580.8	582.4	588.5	588.5	590.8	595.4
22.5°	553.9	557.6	560.8	563.1	566.9	566.9	569.2	574.6	574.6	576.1	580.8
25°	536.9	541.5	543.9	546.1	550.0	549.2	551.5	556.1	556.9	558.5	563.1
27.5°	515.2	519.1	522.2	523.8	529.1	526.1	528.4	533.8	533.0	534.6	538.4
30°	488.4	492.2	495.2	495.2	499.9	499.9	502.2	504.5	504.5	506.1	509.1
32.5°	456.8	461.4	461.4	463.8	466.8	463.8	466.8	469.9	468.4	470.6	473.0
35°	420.6	422.9	423.6	423.6	426.0	425.2	424.4	426.8	425.2	429.0	431.4
37.5°	376.6	379.8	378.2	379.8	379.0	376.6	376.6	380.5	377.4	378.2	380.5
40°	334.2	334.2	333.5	329.6	330.5	328.1	327.4	328.1	325.0	324.2	327.4
42.5°	290.4	289.6	287.2	281.9	282.8	278.9	275.8	275.8	274.2	273.5	274.2
45°	251.1	248.8	245.0	238.8	237.2	234.1	228.0	226.5	224.1	224.1	224.9
47.5°	214.9	211.9	205.6	198.8	194.9	191.0	184.9	182.5	178.8	177.1	178.8
50°	184.9	179.5	171.8	161.8	157.9	153.2	147.1	143.2	139.4	137.9	137.1
52.5°	157.1	149.4	141.8	129.4	126.4	121.8	113.2	109.4	105.5	102.5	102.5
55°	133.2	126.4	115.5	104.0	99.4	94.8	86.2	80.9	77.0	75.5	74.0
57.5°	111.8	104.0	94.0	81.6	77.0	72.4	63.9	58.5	54.8	52.4	50.9
60°	94.0	85.5	75.5	64.8	59.2	54.8	46.2	40.9	37.0	34.6	33.1
62.5°	77.0	70.1	60.1	50.1	45.5	40.9	33.9	28.5	24.6	23.1	20.8
65°	64.8	57.8	48.5	40.0	36.2	31.6	25.4	20.8	17.8	15.4	13.9
67.5°	52.4	47.0	39.2	31.6	27.8	24.6	19.2	15.4	12.4	10.8	10.0
70°	41.6	36.2	30.0	23.9	21.6	18.5	14.6	10.8	9.2	7.8	6.9
72.5°	30.8	27.0	22.4	17.8	15.4	13.9	10.0	8.5	6.1	5.4	4.6
75°	22.4	19.2	16.1	12.4	10.8	10.0	7.8	5.4	4.6	3.9	3.1
77.5°	15.4	13.9	10.8	8.5	7.8	6.9	5.4	3.9	3.1	2.2	2.2
80°	10.0	8.5	6.9	5.4	5.4	4.6	3.1	2.2	2.2	1.5	1.5
82.5°	6.1	5.4	4.6	3.9	3.1	3.1	2.2	1.5	1.5	0.8	0.8
85°	3.9	3.1	2.2	2.2	1.5	1.5	1.5	0.8	0.8	0.8	0.8
87.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	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: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	637.0	637.0	638.5	636.2	637.8	637.8	639.4	636.2	637.8	638.5	640.1
5°	633.9	634.8	636.2	635.5	636.2	636.2	637.8	633.9	637.0	637.0	639.4
7.5°	630.9	630.9	632.4	631.6	633.1	633.9	635.5	632.4	635.5	635.5	637.8
10°	627.0	627.0	629.4	628.5	630.9	631.6	633.9	630.9	633.9	634.8	637.0
12.5°	621.6	622.4	624.8	624.8	627.0	628.5	630.9	629.4	633.1	633.9	637.0
15°	615.5	617.0	620.1	619.2	621.6	623.9	627.0	624.8	630.1	631.6	634.8
17.5°	607.8	609.2	611.6	611.6	613.9	615.5	619.2	617.8	622.4	623.1	627.0
20°	596.2	598.5	601.6	600.9	603.1	604.6	607.8	606.2	610.9	612.4	616.2
22.5°	582.4	583.9	586.1	586.1	588.5	590.0	593.1	590.8	595.4	596.2	599.2
25°	563.9	565.4	566.9	567.8	570.0	570.8	572.4	570.8	574.6	575.4	579.2
27.5°	540.0	540.8	543.0	543.0	544.6	545.4	547.6	544.6	550.0	550.0	552.2
30°	511.5	510.8	513.8	512.2	513.8	513.8	516.1	514.5	518.4	516.9	519.1
32.5°	473.8	475.2	475.2	473.8	476.8	476.0	476.0	474.5	476.8	477.6	479.1
35°	429.8	432.1	432.1	432.9	433.6	431.4	432.1	427.5	431.4	432.1	432.9
37.5°	382.0	379.8	381.2	379.0	382.9	378.2	378.2	375.1	378.2	378.2	379.0
40°	327.4	326.6	328.1	326.6	325.9	325.0	323.5	321.2	324.2	322.8	325.0
42.5°	275.8	275.0	275.0	273.5	272.6	272.6	271.1	269.6	268.9	268.9	272.6
45°	222.6	224.1	222.6	221.9	223.4	221.9	222.6	219.5	221.1	219.5	221.1
47.5°	177.9	178.8	177.1	175.6	177.9	175.6	175.6	173.2	176.4	176.4	174.9
50°	137.9	137.1	135.6	137.1	136.4	136.4	136.4	134.0	135.6	133.2	134.8
52.5°	101.6	100.9	100.9	100.1	100.9	100.1	100.1	99.4	99.4	98.6	99.4
55°	74.0	73.1	71.6	71.6	71.6	72.4	71.6	70.9	70.9	70.1	70.9
57.5°	50.1	48.5	48.5	48.5	48.5	47.8	47.8	47.0	47.8	47.0	47.8
60°	32.4	32.4	30.8	30.8	30.8	30.8	30.8	30.0	30.8	30.8	30.8
62.5°	20.0	20.0	19.2	18.5	19.2	18.5	18.5	18.5	19.2	18.5	19.2
65°	13.1	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
67.5°	9.2	8.5	8.5	8.5	8.5	8.5	8.5	7.8	8.5	8.5	8.5
70°	6.1	6.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	3.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P252242

CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	637.8	638.5	637.0	637.8	636.2	637.8	638.5	640.1
5°	636.2	637.0	635.5	637.0	635.5	637.0	637.8	639.4
7.5°	634.8	636.2	634.8	636.2	634.8	636.2	637.0	638.5
10°	634.8	637.0	635.5	637.8	635.5	637.0	638.5	639.4
12.5°	634.8	637.0	636.2	637.8	637.0	638.5	640.1	641.6
15°	633.1	635.5	633.9	636.2	635.5	636.2	639.4	639.4
17.5°	624.8	627.0	627.0	628.5	628.5	630.9	632.4	633.9
20°	613.9	616.2	615.5	617.8	617.8	620.1	621.6	623.1
22.5°	597.8	600.9	600.0	602.4	601.6	603.1	606.2	605.4
25°	576.9	580.8	580.0	581.5	580.8	580.8	582.4	583.1
27.5°	551.5	553.9	553.0	554.6	553.0	554.6	556.1	556.9
30°	518.4	519.9	519.1	519.9	519.1	520.8	521.5	523.0
32.5°	478.4	480.6	478.4	479.9	479.1	479.1	482.2	480.6
35°	430.6	431.4	432.1	432.1	430.6	431.4	432.9	432.9
37.5°	377.4	381.2	376.6	379.0	378.2	378.2	378.2	380.5
40°	322.0	322.8	321.2	321.2	321.2	320.4	323.5	322.8
42.5°	269.6	270.4	269.6	267.2	268.0	268.0	270.4	267.2
45°	218.8	220.2	219.5	219.5	218.0	218.0	218.8	217.2
47.5°	173.2	174.9	172.5	173.2	171.8	173.2	172.5	174.1
50°	131.8	133.2	132.5	133.2	133.2	131.8	134.0	131.0
52.5°	98.6	99.4	98.6	97.9	97.0	97.0	98.6	97.9
55°	70.1	69.4	69.4	69.4	70.1	70.1	69.4	68.5
57.5°	47.0	47.0	46.2	46.2	47.0	45.5	46.2	45.5
60°	30.0	30.0	30.0	30.0	29.2	30.0	30.0	30.0
62.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
65°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
67.5°	7.8	8.5	8.5	8.5	7.8	7.8	7.8	7.8
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)