

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: P252460

Luminaire Tested: **LE_6B15D010 EC6B10209030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1328.8 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

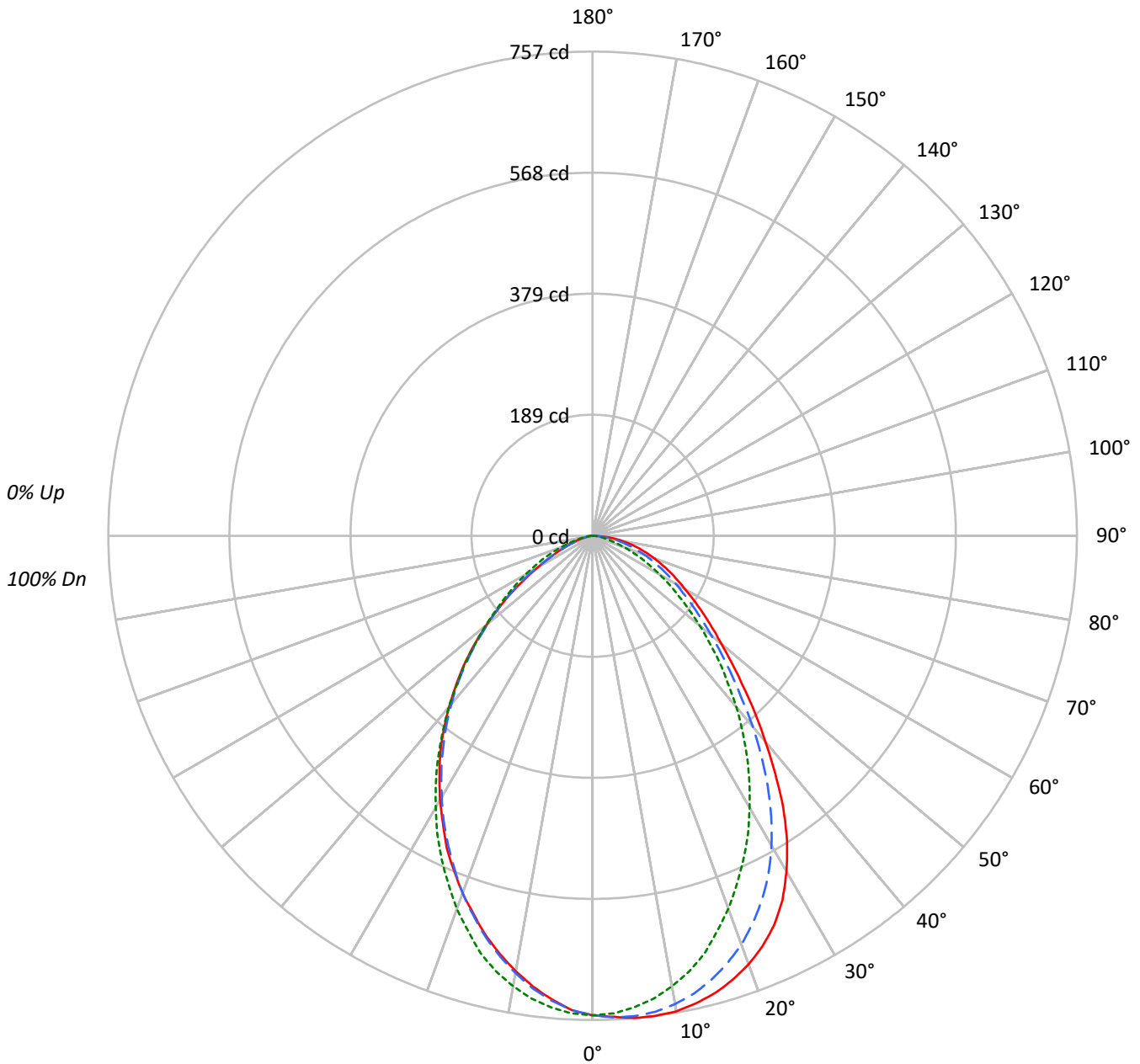
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48904	48904	48904
5°	49569	48476	47664
10°	50010	47380	45790
15°	49995	45645	43666
20°	49509	43080	41275
25°	48338	40168	38814
30°	45644	36943	35926
35°	41375	33498	33084
40°	35735	29799	29706
45°	30641	25935	26120
50°	26633	22187	21872
55°	23909	18711	17528
60°	21738	15762	12905
65°	20408	13029	9478
70°	19457	10129	6962
75°	18628	7335	4739
80°	17621	5072	3156
85°	15645	3069	1572



TEST NUMBER: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	5.3
10°-20°	192.0	14.5
20°-30°	266.6	20.1
30°-40°	276.2	20.8
40°-50°	226.9	17.1
50°-60°	156.0	11.7
60°-70°	89.7	6.7
70°-80°	41.2	3.1
80°-90°	10.0	0.8
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°	528.8	39.8
0°-40°	804.9	60.6
0°-60°	1187.8	89.4
0°-90°	1328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	750	750	750	750	750	
5°	757	754	740	730	728	72
15°	740	718	676	649	646	208
25°	672	627	558	534	539	307
35°	520	477	421	408	415	322
45°	332	307	281	278	283	259
55°	210	190	164	155	154	189
65°	132	116	84	59	61	132
75°	74	58	29	19	19	78
85°	21	15	4	2	2	23
90°	0	0	0	0	0	



TEST NUMBER: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	752.8	759.0	754.9	753.8	755.9	755.9	755.9	752.8	754.9	751.8	753.8
5°	756.9	762.1	758.0	755.9	758.0	759.0	755.9	753.8	756.9	752.8	753.8
7.5°	756.9	762.1	758.0	756.9	758.0	758.0	756.9	752.8	754.9	750.6	750.6
10°	754.9	759.0	754.9	752.8	753.8	752.8	752.8	747.5	748.6	743.4	743.4
12.5°	748.6	753.8	748.6	746.5	746.5	746.5	743.4	739.2	740.2	734.0	733.0
15°	740.2	744.4	739.2	737.1	737.1	736.1	734.0	727.8	727.8	721.5	718.4
17.5°	727.8	731.9	727.8	724.6	723.6	721.5	719.4	713.1	711.1	703.8	700.6
20°	713.1	716.2	712.1	709.0	706.9	704.9	700.6	694.4	692.4	685.0	679.9
22.5°	694.4	698.6	692.4	689.2	687.1	684.0	679.9	673.6	670.5	661.1	654.9
25°	671.5	673.6	668.4	665.2	661.1	659.0	655.9	647.6	644.5	634.0	626.8
27.5°	642.4	644.5	638.2	636.1	630.9	628.9	624.6	617.4	613.2	602.9	595.5
30°	605.9	608.0	603.9	600.8	596.6	592.4	589.2	582.0	575.8	565.4	559.1
32.5°	565.4	568.5	564.2	560.1	552.9	553.9	548.6	541.4	536.1	526.8	519.5
35°	519.5	521.6	516.4	515.4	511.2	507.0	501.9	496.6	493.5	483.1	476.9
37.5°	468.5	473.8	468.5	464.4	462.2	459.1	456.0	448.8	446.6	440.4	432.1
40°	419.6	422.8	419.6	415.4	412.2	412.2	408.1	404.0	398.8	392.5	389.4
42.5°	375.9	373.8	372.8	370.6	366.5	365.4	364.4	359.2	356.1	349.9	344.6
45°	332.1	333.1	331.1	330.0	326.9	324.9	322.8	318.6	317.5	311.2	307.1
47.5°	295.6	294.6	292.5	292.5	290.5	288.4	286.2	283.1	282.1	277.0	272.8
50°	262.4	263.4	262.4	261.4	258.2	257.1	255.1	253.0	250.9	245.8	241.5
52.5°	235.2	234.2	233.2	233.2	230.1	229.0	227.0	224.9	222.8	217.6	214.5
55°	210.2	210.2	209.2	208.2	205.1	204.0	203.0	201.0	197.9	193.6	190.5
57.5°	187.4	187.4	186.4	185.4	183.2	183.2	181.1	179.1	177.0	172.9	168.6
60°	166.6	167.6	166.6	165.5	163.5	163.5	162.4	159.2	158.2	153.0	149.9
62.5°	148.9	148.9	148.9	147.9	146.8	144.8	144.8	141.6	139.5	136.4	132.2
65°	132.2	132.2	132.2	131.1	129.1	128.0	127.0	124.9	122.9	119.8	115.6
67.5°	116.6	116.6	116.6	115.6	113.5	112.5	111.4	110.4	107.2	104.1	100.0
70°	102.0	102.0	101.0	100.0	98.9	97.9	96.9	94.8	92.6	88.5	85.4
72.5°	87.5	87.5	87.5	85.4	84.4	84.4	82.2	81.2	79.1	75.0	71.9
75°	73.9	72.9	72.9	71.9	70.8	69.8	68.8	67.6	64.5	62.5	58.2
77.5°	60.4	60.4	59.4	58.2	58.2	57.2	56.2	54.1	53.1	50.0	46.9
80°	46.9	46.9	46.9	46.9	45.8	44.8	44.8	42.6	41.6	38.5	36.5
82.5°	35.4	34.4	34.4	34.4	33.4	32.2	32.2	31.2	30.2	28.1	26.0
85°	20.9	19.8	19.8	19.8	18.8	18.8	17.8	17.8	16.6	14.6	14.6
87.5°	6.2	6.2	7.2	7.2	6.2	6.2	6.2	6.2	6.2	5.2	5.2
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: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	751.8	754.9	750.6	749.6	753.8	751.8	750.6	748.6	749.6	747.5	744.4
5°	750.6	754.9	749.6	746.5	751.8	748.6	746.5	744.4	744.4	740.2	738.1
7.5°	747.5	749.6	744.4	741.2	744.4	741.2	739.2	736.1	735.0	729.9	726.8
10°	739.2	741.2	735.0	730.9	734.0	729.9	726.8	723.6	721.5	715.2	711.1
12.5°	727.8	728.8	721.5	716.2	718.4	715.2	710.0	705.9	703.8	697.5	692.4
15°	712.1	713.1	704.9	697.5	699.6	695.5	689.2	685.0	682.0	675.8	668.4
17.5°	693.4	692.4	683.0	675.8	676.8	671.5	665.2	659.0	654.9	647.6	642.4
20°	672.6	669.5	659.0	650.8	651.8	645.5	638.2	632.0	626.8	620.5	613.2
22.5°	646.5	642.4	633.0	622.6	623.6	618.4	608.0	602.9	597.6	589.2	583.0
25°	618.4	612.1	602.9	592.4	592.4	586.1	577.9	571.6	566.4	558.0	550.8
27.5°	585.1	582.0	569.5	561.1	560.1	553.9	546.6	539.2	533.0	525.8	518.5
30°	548.6	543.5	534.1	524.8	522.6	517.5	510.1	501.9	497.6	490.4	484.1
32.5°	510.1	505.0	494.5	485.1	484.1	480.0	473.8	465.4	461.2	456.0	451.9
35°	466.4	464.4	453.9	446.6	446.6	442.5	436.2	429.0	425.9	420.6	415.4
37.5°	424.8	421.6	412.2	406.0	406.0	400.9	394.6	391.5	388.4	384.1	381.0
40°	381.0	379.0	371.6	365.4	366.5	362.2	358.1	354.0	351.9	349.9	346.8
42.5°	340.5	338.4	333.1	328.0	328.0	324.9	320.6	317.5	315.5	312.4	311.2
45°	304.0	300.9	296.8	291.5	291.5	288.4	286.2	284.2	283.1	281.1	278.0
47.5°	268.6	266.5	262.4	257.1	257.1	257.1	253.0	249.9	249.9	247.8	246.8
50°	238.4	235.2	232.1	228.0	228.0	225.9	222.8	219.6	219.6	218.6	216.5
52.5°	210.2	208.2	204.0	199.9	199.9	197.9	194.8	193.6	192.6	189.5	188.5
55°	186.4	184.2	181.1	176.0	174.9	173.9	170.8	168.6	167.6	164.5	164.5
57.5°	164.5	162.4	157.2	154.1	153.0	151.0	147.9	145.8	144.8	142.6	140.5
60°	145.8	142.6	138.5	134.2	133.2	131.1	128.0	126.0	124.9	120.8	118.8
62.5°	128.0	124.9	120.8	116.6	115.6	113.5	109.4	107.2	105.1	101.0	98.9
65°	111.4	108.2	104.1	100.0	97.9	96.9	92.6	89.5	87.5	84.4	80.1
67.5°	95.8	92.6	88.5	83.2	83.2	80.1	77.0	73.9	70.8	67.6	64.5
70°	81.2	78.1	73.9	69.8	68.8	66.6	63.5	59.4	57.2	53.1	50.0
72.5°	67.6	64.5	60.4	56.2	55.1	53.1	50.0	45.8	42.6	39.6	36.5
75°	55.1	52.0	47.9	44.8	43.8	41.6	38.5	34.4	31.2	29.1	26.0
77.5°	43.8	40.6	37.5	34.4	33.4	31.2	28.1	26.0	22.9	20.9	17.8
80°	33.4	31.2	28.1	26.0	25.0	22.9	20.9	17.8	15.6	13.5	12.5
82.5°	24.0	21.9	19.8	16.6	16.6	14.6	13.5	11.5	9.4	8.4	7.2
85°	13.5	11.5	10.4	9.4	8.4	8.4	7.2	6.2	5.2	4.1	4.1
87.5°	4.1	4.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1
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: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	744.4	745.5	743.4	745.5	743.4	744.4	742.4	744.4	742.4	744.4	740.2
5°	737.1	737.1	734.0	736.1	734.0	735.0	730.9	731.9	729.9	731.9	727.8
7.5°	724.6	725.6	720.5	722.5	719.4	719.4	716.2	717.4	714.2	715.2	712.1
10°	710.0	709.0	703.8	705.9	701.8	701.8	698.6	698.6	694.4	695.5	691.2
12.5°	689.2	688.1	682.0	684.0	679.9	679.9	676.8	676.8	672.6	674.6	670.5
15°	665.2	664.2	658.0	659.0	654.9	654.9	650.8	651.8	648.6	650.8	646.5
17.5°	638.2	637.1	630.9	632.0	626.8	627.8	624.6	623.6	621.5	622.6	619.5
20°	610.1	608.0	601.8	602.9	600.8	597.6	595.5	596.6	594.5	596.6	593.5
22.5°	581.0	576.8	571.6	571.6	569.5	569.5	566.4	568.5	564.2	567.4	565.4
25°	547.6	544.5	540.4	542.4	538.2	538.2	535.1	536.1	534.1	536.1	534.1
27.5°	515.4	513.2	507.0	509.1	506.0	507.0	503.9	505.0	503.9	506.0	503.9
30°	481.0	480.0	475.8	475.8	474.8	473.8	472.6	472.6	471.6	474.8	472.6
32.5°	448.8	445.6	441.5	444.5	439.4	442.5	440.4	442.5	440.4	442.5	441.5
35°	415.4	414.4	409.1	410.2	409.1	409.1	408.1	408.1	408.1	411.2	411.2
37.5°	380.0	379.0	375.9	376.9	374.8	373.8	373.8	375.9	375.9	377.9	377.9
40°	345.6	346.8	343.6	343.6	342.5	342.5	342.5	344.6	343.6	345.6	344.6
42.5°	311.2	311.2	308.1	309.2	308.1	309.2	309.2	311.2	311.2	312.4	311.2
45°	279.0	279.0	278.0	279.0	277.0	278.0	277.0	279.0	278.0	279.0	279.0
47.5°	246.8	246.8	246.8	245.8	245.8	245.8	245.8	245.8	244.6	246.8	245.8
50°	216.5	217.6	216.5	216.5	215.5	216.5	215.5	215.5	213.4	214.5	214.5
52.5°	189.5	189.5	187.4	187.4	187.4	186.4	186.4	186.4	185.4	185.4	183.2
55°	163.5	163.5	161.4	161.4	160.4	159.2	158.2	158.2	155.1	155.1	152.0
57.5°	139.5	138.5	135.4	135.4	133.2	132.2	131.1	130.1	128.0	126.0	124.9
60°	117.6	115.6	113.5	112.5	110.4	108.2	106.2	104.1	102.0	101.0	100.0
62.5°	96.9	93.8	91.6	90.6	88.5	85.4	83.2	81.2	79.1	78.1	76.0
65°	78.1	75.0	71.9	70.8	68.8	66.6	63.5	61.4	59.4	58.2	58.2
67.5°	61.4	58.2	54.1	54.1	52.0	50.0	47.9	45.8	44.8	45.8	45.8
70°	45.8	43.8	40.6	39.6	37.5	35.4	34.4	34.4	34.4	35.4	34.4
72.5°	34.4	31.2	29.1	28.1	27.1	26.0	26.0	26.0	25.0	26.0	26.0
75°	24.0	21.9	19.8	19.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
77.5°	16.6	14.6	13.5	13.5	13.5	12.5	12.5	12.5	12.5	12.5	12.5
80°	10.4	10.4	9.4	9.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	6.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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: P252460

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	749.6	749.6	749.6	749.6	749.6	749.6	749.6	749.6
2.5°	740.2	743.4	739.2	742.4	741.2	740.2	738.1	742.4
5°	727.8	728.8	724.6	728.8	727.8	725.6	723.6	727.8
7.5°	710.0	713.1	708.0	712.1	711.1	709.0	706.9	711.1
10°	690.2	693.4	689.2	692.4	692.4	690.2	687.1	691.2
12.5°	668.4	670.5	666.4	670.5	669.5	667.4	666.4	669.5
15°	644.5	647.6	643.4	646.5	645.5	644.5	643.4	646.5
17.5°	618.4	621.5	618.4	621.5	621.5	618.4	617.4	619.5
20°	592.4	594.5	591.4	594.5	593.5	593.5	591.4	594.5
22.5°	563.2	566.4	564.2	566.4	565.4	565.4	564.2	566.4
25°	534.1	537.2	534.1	537.2	536.1	536.1	534.1	539.2
27.5°	505.0	507.0	503.9	508.1	507.0	505.0	506.0	507.0
30°	473.8	475.8	473.8	476.9	476.9	476.9	474.8	476.9
32.5°	442.5	445.6	442.5	445.6	444.5	444.5	443.5	445.6
35°	411.2	412.2	410.2	413.4	413.4	414.4	412.2	415.4
37.5°	379.0	380.0	379.0	380.0	382.1	379.0	381.0	382.1
40°	345.6	347.8	346.8	347.8	347.8	348.8	347.8	348.8
42.5°	312.4	314.4	312.4	315.5	314.4	314.4	315.5	315.5
45°	278.0	281.1	279.0	281.1	282.1	281.1	281.1	283.1
47.5°	245.8	247.8	246.8	247.8	247.8	247.8	247.8	249.9
50°	213.4	214.5	214.5	215.5	215.5	216.5	214.5	215.5
52.5°	181.1	183.2	183.2	183.2	182.2	183.2	183.2	183.2
55°	152.0	153.0	151.0	153.0	153.0	152.0	152.0	154.1
57.5°	123.9	123.9	123.9	123.9	123.9	122.9	123.9	123.9
60°	97.9	98.9	97.9	97.9	97.9	97.9	96.9	98.9
62.5°	76.0	76.0	75.0	76.0	76.0	76.0	77.0	77.0
65°	59.4	60.4	59.4	60.4	60.4	60.4	60.4	61.4
67.5°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
70°	35.4	35.4	35.4	36.5	35.4	35.4	35.4	36.5
72.5°	26.0	26.0	26.0	26.0	26.0	26.0	27.1	27.1
75°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
77.5°	12.5	12.5	12.5	13.5	12.5	13.5	12.5	12.5
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0
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)