

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: P252545

Luminaire Tested: **LE_6B10D010 EC6B10208030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1325.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

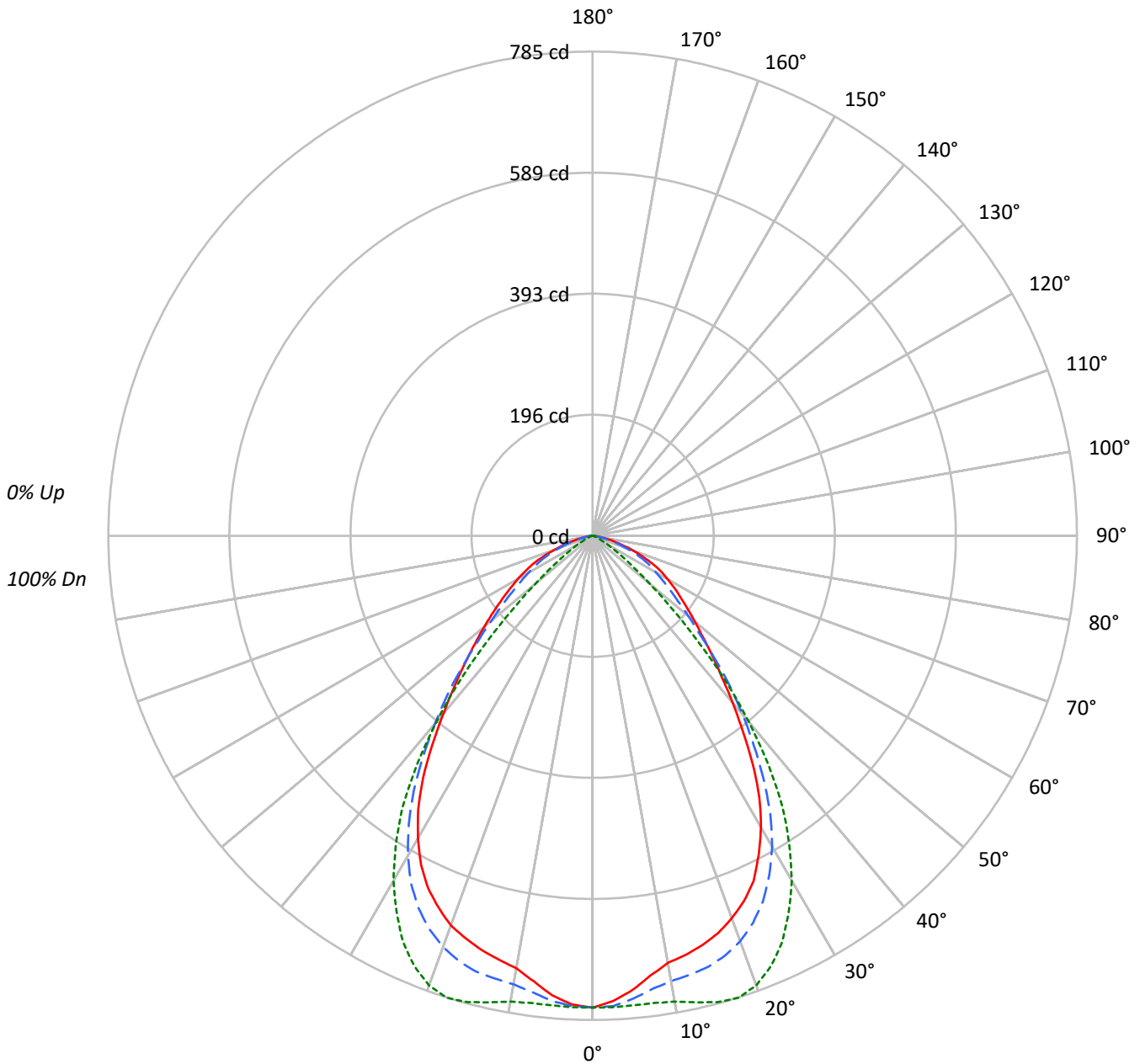
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

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	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49909	49909	49909
5°	48423	50041	48993
10°	46578	50798	47161
15°	46408	52858	46948
20°	45808	53848	46662
25°	44429	52333	45394
30°	41102	48635	42639
35°	36063	42761	38181
40°	30055	33513	32014
45°	25290	22106	27015
50°	21903	12119	23243
55°	19814	6438	20315
60°	18241	3340	18241
65°	16518	1775	16116
70°	13333	992	12303
75°	9125	655	8470
80°	5974	338	5297
85°	3892	674	3294



TEST NUMBER: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	5.4
10°-20°	206.3	15.6
20°-30°	304.8	23.0
30°-40°	307.8	23.2
40°-50°	212.2	16.0
50°-60°	121.9	9.2
60°-70°	70.9	5.4
70°-80°	25.9	2.0
80°-90°	4.0	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°	582.4	44.0
0°-40°	890.2	67.2
0°-60°	1224.2	92.4
0°-90°	1325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1325.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	765	765	765	765	765	
5°	739	754	764	757	748	69
15°	687	723	783	731	695	194
25°	617	654	727	667	631	281
35°	453	484	537	506	479	281
45°	274	278	240	295	293	213
55°	174	153	57	159	179	157
65°	107	90	12	89	104	105
75°	36	29	3	28	34	41
85°	5	3	1	4	4	7
90°	0	0	0	0	0	



TEST NUMBER: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	755.2	756.1	757.0	756.1	757.0	760.6	757.9	759.6	759.6	760.6	763.2
5°	739.4	739.4	741.1	740.2	742.9	746.4	743.8	746.4	747.2	749.1	753.5
7.5°	719.0	719.0	719.9	719.9	723.4	727.0	725.2	728.8	732.2	735.8	741.1
10°	703.1	704.9	704.9	705.8	709.2	713.8	712.8	717.2	720.8	726.1	733.1
12.5°	696.0	696.9	696.9	698.6	702.2	706.6	705.8	710.1	715.5	721.6	728.8
15°	687.1	688.9	688.0	689.9	693.4	697.8	696.9	701.4	707.5	713.8	723.4
17.5°	675.6	676.5	677.4	677.4	681.0	684.5	684.5	688.9	696.0	703.1	713.8
20°	659.8	661.5	661.5	662.4	665.0	670.4	669.5	673.9	681.0	688.0	699.5
22.5°	641.1	642.0	642.0	643.0	647.4	650.0	650.9	654.5	660.6	668.6	679.2
25°	617.2	618.1	617.2	620.0	621.8	627.0	625.2	629.6	636.8	643.0	653.5
27.5°	582.8	584.6	584.6	585.5	589.9	594.2	594.2	598.8	604.9	609.4	620.0
30°	545.6	548.4	545.6	550.1	551.9	555.4	558.0	560.8	566.0	572.2	581.9
32.5°	503.2	502.4	503.2	505.0	510.2	513.0	514.8	517.4	522.6	528.0	535.9
35°	452.8	454.6	455.5	459.0	459.0	463.4	464.2	466.1	474.0	477.6	483.8
37.5°	399.8	401.5	402.4	404.1	407.8	409.5	412.1	414.8	420.1	426.2	429.8
40°	352.9	352.9	353.8	355.5	358.1	359.0	361.8	365.2	368.8	374.1	377.6
42.5°	308.6	309.5	308.6	310.4	313.1	316.6	315.8	320.1	321.0	324.6	327.2
45°	274.1	274.1	272.4	274.1	274.1	277.8	276.8	278.6	277.8	279.5	277.8
47.5°	241.4	242.4	241.4	242.4	242.4	242.4	243.2	241.4	242.4	239.6	234.4
50°	215.8	216.6	214.9	215.8	214.9	214.0	214.9	212.2	211.4	207.9	202.5
52.5°	193.6	192.8	191.9	191.9	191.9	191.0	190.1	187.5	184.9	181.2	175.1
55°	174.2	173.4	172.5	172.5	170.6	169.8	169.8	167.1	164.5	160.1	153.0
57.5°	156.5	155.6	154.8	154.8	153.9	152.1	152.1	149.5	145.9	140.6	134.4
60°	139.8	139.8	139.8	138.9	138.9	137.1	137.1	134.4	130.9	125.6	118.5
62.5°	124.8	123.9	123.9	123.9	123.9	122.9	122.0	120.2	116.8	111.4	105.2
65°	107.0	107.0	107.0	107.0	106.1	106.1	106.1	103.5	101.8	96.4	90.2
67.5°	87.5	87.5	87.5	87.5	86.6	87.5	87.5	85.8	84.0	78.8	73.4
70°	69.9	69.0	68.1	69.0	68.1	68.1	69.0	67.2	66.4	61.9	56.6
72.5°	51.2	52.1	51.2	51.2	51.2	50.4	51.2	50.4	48.6	45.1	41.6
75°	36.2	37.1	37.1	36.2	36.2	36.2	35.4	35.4	33.6	31.0	29.1
77.5°	24.8	24.8	24.8	24.8	23.9	23.9	23.9	23.0	22.1	20.4	18.6
80°	15.9	15.9	15.9	15.9	15.0	15.0	15.0	14.1	14.1	12.4	10.6
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	8.9	8.9	8.0	7.1	6.2
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4	3.5	2.6
87.5°	1.8	1.8	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8
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: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	761.5	762.4	762.4	762.4	765.0	765.9	763.2	760.6	765.9	765.0	766.8
5°	752.6	755.2	757.0	757.9	760.6	762.4	759.6	758.8	763.2	764.1	765.0
7.5°	742.0	746.4	750.9	752.6	756.1	757.9	757.0	757.0	762.4	764.1	764.1
10°	734.9	741.1	746.4	750.9	755.2	757.9	757.9	758.8	765.0	766.8	768.5
12.5°	733.1	741.1	748.1	754.4	757.9	762.4	763.2	765.9	772.1	774.8	774.8
15°	728.8	739.4	748.1	756.1	761.5	766.8	768.5	773.9	780.9	782.6	784.5
17.5°	720.8	731.4	742.0	751.8	758.8	763.2	768.5	773.9	782.6	785.4	786.2
20°	706.6	719.0	729.6	739.4	746.4	752.6	757.9	764.1	772.1	775.6	776.5
22.5°	685.4	697.8	708.4	719.0	726.1	731.4	736.8	743.8	751.8	755.2	755.2
25°	659.8	671.2	682.8	690.8	697.8	704.0	706.6	714.6	722.5	727.0	727.0
27.5°	627.0	637.6	648.2	657.1	661.5	666.9	671.2	678.4	684.5	688.0	691.6
30°	585.5	596.1	605.8	614.6	620.0	625.2	629.6	635.0	641.1	645.6	646.5
32.5°	540.4	549.2	558.9	567.8	573.1	574.9	579.2	584.6	589.9	593.4	594.2
35°	490.9	497.0	503.2	511.1	516.5	516.5	520.9	524.4	528.9	536.9	535.0
37.5°	432.5	441.2	445.8	448.4	451.9	455.5	456.4	460.8	466.1	467.9	470.5
40°	377.6	380.2	382.9	382.9	386.5	386.5	386.5	387.4	392.6	393.5	397.1
42.5°	322.8	322.8	320.1	317.5	318.4	317.5	313.1	313.1	315.8	319.2	319.2
45°	271.5	265.4	257.4	251.1	246.8	245.0	239.6	239.6	238.8	239.6	243.2
47.5°	228.1	217.5	204.2	191.9	187.5	184.0	176.0	172.5	170.6	171.6	173.4
50°	191.9	180.4	165.4	150.4	142.4	138.0	128.2	122.0	121.1	119.4	122.9
52.5°	165.4	151.2	135.2	117.6	109.6	102.6	92.0	86.6	83.1	83.1	84.0
55°	142.4	127.4	109.6	92.0	84.0	78.8	68.1	61.0	57.5	56.6	59.2
57.5°	122.9	108.8	91.1	73.4	65.5	59.2	48.6	42.5	39.8	38.0	38.9
60°	107.9	93.8	76.0	59.2	52.1	45.1	36.2	29.1	25.6	25.6	26.5
62.5°	93.8	80.5	64.5	48.6	42.5	36.2	26.5	20.4	17.8	16.8	17.8
65°	79.6	67.2	54.0	40.6	34.5	29.1	21.2	15.9	12.4	11.5	12.4
67.5°	64.5	54.9	43.4	32.8	27.4	23.0	15.9	11.5	8.9	8.0	8.9
70°	50.4	41.6	32.8	23.9	20.4	16.8	11.5	8.9	6.2	5.2	6.2
72.5°	36.2	30.1	23.0	16.8	14.1	11.5	8.0	6.2	4.4	3.5	4.4
75°	24.8	20.4	15.0	10.6	8.9	8.0	5.2	3.5	2.6	2.6	2.6
77.5°	15.9	12.4	9.8	7.1	5.2	4.4	2.6	1.8	1.8	1.8	1.8
80°	8.9	7.1	5.2	3.5	2.6	2.6	1.8	1.8	0.9	0.9	0.9
82.5°	5.2	3.5	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.6	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	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: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	763.2	764.1	761.5	765.0	762.4	765.9	765.9	762.4	763.2	761.5	765.0
5°	761.5	761.5	759.6	762.4	758.8	762.4	761.5	755.2	757.0	753.5	757.0
7.5°	761.5	759.6	757.0	759.6	755.2	757.9	754.4	748.1	746.4	742.0	742.0
10°	764.1	761.5	757.9	758.8	754.4	755.2	750.0	741.1	738.5	733.1	731.4
12.5°	770.2	767.6	762.4	764.1	757.9	757.9	750.9	740.2	734.9	727.9	726.1
15°	779.1	774.8	768.5	769.4	763.2	759.6	750.9	738.5	731.4	721.6	719.0
17.5°	780.9	776.5	768.5	768.5	760.6	756.1	745.5	731.4	722.5	712.8	707.5
20°	771.1	766.8	757.9	757.0	750.0	743.8	732.2	718.1	709.2	698.6	694.2
22.5°	750.9	745.5	737.6	736.8	729.6	726.1	713.8	699.5	690.8	680.1	676.5
25°	720.8	718.1	710.1	709.2	703.1	698.6	688.0	674.8	666.9	656.2	652.6
27.5°	685.4	682.8	674.8	674.8	667.8	665.0	655.4	643.0	636.8	627.0	622.6
30°	643.0	639.4	635.0	634.1	627.9	625.2	616.4	604.9	598.8	590.8	589.0
32.5°	592.5	589.9	587.2	586.4	580.1	577.5	571.2	559.8	554.5	547.4	544.8
35°	534.1	532.4	529.8	528.9	526.2	523.5	517.4	508.5	505.9	500.5	497.9
37.5°	467.0	468.8	467.0	467.0	464.2	465.1	459.9	454.6	451.9	448.4	446.6
40°	394.4	398.0	400.6	400.6	399.8	403.2	402.4	398.0	397.1	395.4	394.4
42.5°	321.0	322.8	328.1	331.6	330.8	339.6	340.5	344.0	346.6	344.9	345.8
45°	244.1	249.4	256.5	260.0	264.4	275.9	282.1	289.2	295.4	298.9	298.0
47.5°	176.0	182.1	190.1	195.5	203.4	217.5	233.5	242.4	251.1	255.6	260.0
50°	127.4	133.5	143.2	151.2	156.5	176.0	192.8	204.2	214.0	220.2	224.6
52.5°	89.4	96.4	107.0	114.1	122.0	140.6	160.1	173.4	184.0	191.9	196.4
55°	61.9	69.9	79.6	86.6	95.5	115.0	133.5	147.8	159.2	166.2	171.6
57.5°	43.4	50.4	60.1	66.4	75.1	93.8	112.4	126.5	138.0	145.0	151.2
60°	29.1	36.2	46.0	52.1	59.2	77.9	94.6	109.6	120.2	127.4	133.5
62.5°	20.4	26.5	36.2	42.5	48.6	64.5	80.5	93.8	104.4	112.4	117.6
65°	15.9	21.2	29.1	34.5	40.6	54.0	67.2	78.8	89.4	97.2	100.9
67.5°	11.5	16.8	23.0	27.4	31.9	43.4	54.9	63.6	73.4	79.6	84.0
70°	8.0	11.5	16.8	20.4	23.9	32.8	41.6	49.5	56.6	61.0	64.5
72.5°	6.2	8.0	11.5	14.1	16.8	23.0	30.1	36.2	41.6	45.1	48.6
75°	3.5	5.2	8.0	9.8	11.5	15.9	20.4	24.8	28.2	31.0	32.8
77.5°	1.8	2.6	4.4	5.2	7.1	9.8	13.2	15.9	18.6	20.4	22.1
80°	1.8	1.8	2.6	2.6	3.5	5.2	7.1	8.9	10.6	12.4	13.2
82.5°	0.9	0.9	1.8	1.8	1.8	2.6	3.5	5.2	6.2	7.1	8.0
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.6	3.5	4.4	4.4
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	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: P252545

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
2.5°	762.4	764.1	763.2	765.0	762.4	761.5	763.2	760.6
5°	752.6	753.5	752.6	752.6	750.9	749.1	750.9	748.1
7.5°	737.6	737.6	734.9	734.9	731.4	729.6	729.6	728.8
10°	725.2	722.5	719.9	720.8	715.5	713.8	712.8	711.9
12.5°	719.0	717.2	712.8	712.8	707.5	705.8	704.9	704.0
15°	711.9	708.4	704.9	704.0	699.5	697.8	696.9	695.1
17.5°	699.5	696.9	692.5	692.5	688.0	687.1	685.4	684.5
20°	686.2	682.8	679.2	679.2	673.9	673.9	671.2	672.1
22.5°	667.8	665.0	661.5	661.5	657.1	656.2	653.5	652.6
25°	645.6	642.0	639.4	638.5	635.0	633.2	632.4	630.6
27.5°	616.4	613.8	611.1	609.4	604.9	604.0	601.4	602.2
30°	580.1	578.4	577.5	575.8	570.4	568.6	568.6	566.0
32.5°	540.4	537.8	535.9	533.2	528.9	528.0	525.4	526.2
35°	491.8	488.1	485.5	486.4	481.1	480.2	478.5	479.4
37.5°	441.2	437.8	434.2	433.4	428.9	428.9	426.2	426.2
40°	389.1	385.6	383.9	383.9	378.5	379.4	376.8	375.9
42.5°	342.2	338.8	337.9	337.0	334.2	333.4	330.8	331.6
45°	298.0	297.1	297.1	295.4	292.8	291.9	292.8	292.8
47.5°	259.1	260.0	259.1	259.1	257.4	259.1	257.4	258.2
50°	226.4	228.1	228.1	228.1	227.2	228.1	228.1	229.0
52.5°	199.0	201.6	200.8	201.6	200.8	202.5	201.6	202.5
55°	175.1	176.9	177.8	178.6	178.6	178.6	178.6	178.6
57.5°	153.0	155.6	156.5	157.4	157.4	159.2	157.4	157.4
60°	135.2	138.0	138.9	139.8	139.8	140.6	138.9	139.8
62.5°	119.4	122.0	122.0	122.9	122.9	122.9	121.1	122.0
65°	103.5	104.4	105.2	105.2	104.4	104.4	103.5	104.4
67.5°	85.8	86.6	85.8	85.8	84.9	84.9	83.1	84.0
70°	66.4	66.4	67.2	66.4	65.5	66.4	65.5	64.5
72.5°	49.5	49.5	49.5	48.6	48.6	47.8	48.6	48.6
75°	33.6	33.6	34.5	34.5	34.5	34.5	33.6	33.6
77.5°	22.1	22.1	22.1	22.1	23.0	22.1	22.1	22.1
80°	14.1	14.1	15.0	15.0	14.1	14.1	14.1	14.1
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.8	1.8
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)