

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: io LED

Report Number: P252558

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252558
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: io LED
Catalog Number: LD6B15D010 EU6B10208030 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: 1461.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

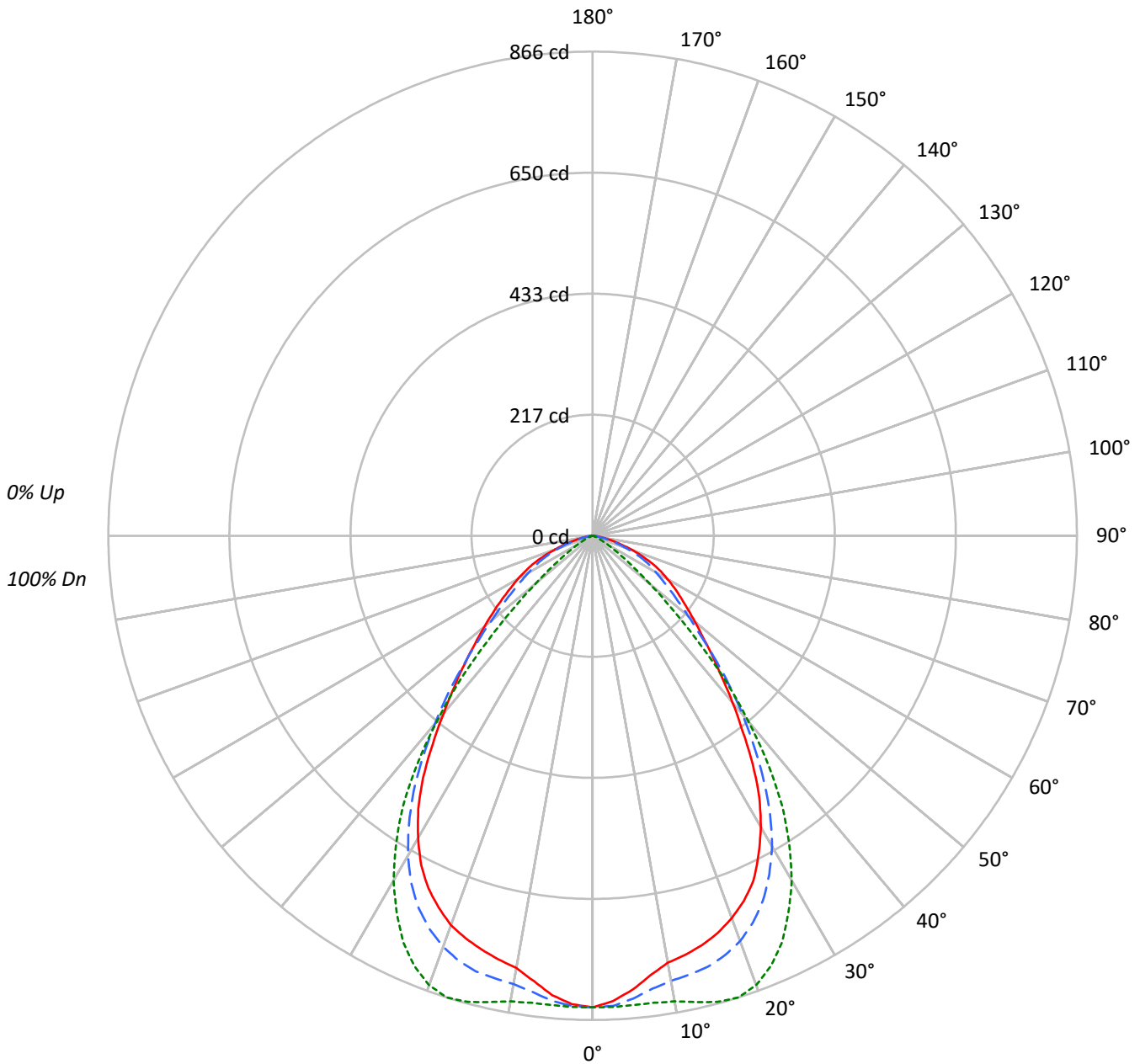
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LD6B15D010 EU6B10208030 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								
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55030	55030	55030
5°	53387	55175	54029
10°	51355	56012	52004
15°	51177	58289	51771
20°	50509	59375	51453
25°	49000	57703	50051
30°	45328	53630	47016
35°	39766	47141	42092
40°	33138	36953	35293
45°	27891	24385	29783
50°	24146	13357	25638
55°	21850	7098	22407
60°	20107	3693	20107
65°	18216	1961	17768
70°	14688	1125	13581
75°	10083	731	9352
80°	6612	376	5861
85°	4416	749	3668



TEST NUMBER: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	5.4
10°-20°	227.4	15.6
20°-30°	336.0	23.0
30°-40°	339.4	23.2
40°-50°	234.0	16.0
50°-60°	134.4	9.2
60°-70°	78.2	5.4
70°-80°	28.5	2.0
80°-90°	4.4	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°	642.1	44.0
0°-40°	981.6	67.2
0°-60°	1349.9	92.4
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	844	844	844	844	844	
5°	815	831	842	835	825	76
15°	758	798	863	806	766	213
25°	681	721	802	735	695	310
35°	499	533	592	558	528	310
45°	302	306	264	326	323	235
55°	192	169	62	176	197	173
65°	118	100	13	98	115	116
75°	40	32	3	31	37	45
85°	6	3	1	4	5	7
90°	0	0	0	0	0	



TEST NUMBER: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	832.8	833.8	834.7	833.8	834.7	838.6	835.7	837.7	837.7	838.6	841.6
5°	815.2	815.2	817.2	816.2	819.1	823.0	820.1	823.0	824.0	826.0	830.8
7.5°	792.8	792.8	793.8	793.8	797.7	801.6	799.6	803.5	807.4	811.3	817.2
10°	775.2	777.2	777.2	778.2	782.1	786.9	786.0	790.8	794.8	800.6	808.4
12.5°	767.4	768.4	768.4	770.4	774.3	779.1	778.2	783.0	788.9	795.7	803.5
15°	757.7	759.6	758.7	760.6	764.5	769.4	768.4	773.3	780.1	786.9	797.7
17.5°	745.0	746.0	747.0	747.0	750.9	754.8	754.8	759.6	767.4	775.2	786.9
20°	727.5	729.4	729.4	730.4	733.3	739.2	738.2	743.1	750.9	758.7	771.3
22.5°	707.0	708.0	708.0	708.9	713.8	716.7	717.7	721.6	728.4	737.2	748.9
25°	680.7	681.6	680.7	683.6	685.5	691.4	689.4	694.3	702.1	708.9	720.6
27.5°	642.6	644.6	644.6	645.6	650.4	655.3	655.3	660.2	667.0	671.9	683.6
30°	601.7	604.6	601.7	606.5	608.5	612.4	615.3	618.2	624.1	630.9	641.7
32.5°	554.9	553.9	554.9	556.8	562.7	565.6	567.5	570.5	576.3	582.2	590.9
35°	499.3	501.2	502.2	506.1	506.1	511.0	512.0	513.9	522.7	526.6	533.4
37.5°	440.8	442.7	443.7	445.6	449.5	451.5	454.4	457.3	463.2	470.0	473.9
40°	389.1	389.1	390.1	392.0	394.9	395.9	398.8	402.7	406.6	412.5	416.4
42.5°	340.3	341.3	340.3	342.3	345.2	349.1	348.1	353.0	354.0	357.9	360.8
45°	302.3	302.3	300.3	302.3	302.3	306.2	305.2	307.2	306.2	308.1	306.2
47.5°	266.2	267.2	266.2	267.2	267.2	267.2	268.2	266.2	267.2	264.3	258.4
50°	237.9	238.9	237.0	237.9	237.0	236.0	237.0	234.0	233.1	229.2	223.3
52.5°	213.6	212.6	211.6	211.6	211.6	210.6	209.7	206.7	203.8	199.9	193.1
55°	192.1	191.1	190.2	190.2	188.2	187.2	187.2	184.3	181.4	176.5	168.7
57.5°	172.6	171.6	170.7	170.7	169.7	167.7	167.7	164.8	160.9	155.0	148.2
60°	154.1	154.1	154.1	153.1	153.1	151.1	151.1	148.2	144.3	138.5	130.7
62.5°	137.5	136.5	136.5	136.5	136.5	135.5	134.6	132.6	128.7	122.9	116.0
65°	118.0	118.0	118.0	118.0	117.0	117.0	117.0	114.1	112.1	106.3	99.5
67.5°	96.5	96.5	96.5	96.5	95.6	96.5	96.5	94.6	92.6	86.8	80.9
70°	77.0	76.1	75.1	76.1	75.1	75.1	76.1	74.1	73.1	68.3	62.4
72.5°	56.6	57.5	56.6	56.6	56.6	55.6	56.6	55.6	53.6	49.7	45.8
75°	40.0	41.0	41.0	40.0	40.0	40.0	39.0	39.0	37.1	34.1	32.2
77.5°	27.3	27.3	27.3	27.3	26.3	26.3	26.3	25.4	24.4	22.4	20.5
80°	17.6	17.6	17.6	17.6	16.6	16.6	16.6	15.6	15.6	13.7	11.7
82.5°	10.7	10.7	10.7	10.7	10.7	10.7	9.8	9.8	8.8	7.8	6.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	4.9	3.9	2.9
87.5°	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0
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: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	839.6	840.6	840.6	840.6	843.5	844.5	841.6	838.6	844.5	843.5	845.5
5°	829.9	832.8	834.7	835.7	838.6	840.6	837.7	836.7	841.6	842.5	843.5
7.5°	818.2	823.0	827.9	829.9	833.8	835.7	834.7	834.7	840.6	842.5	842.5
10°	810.4	817.2	823.0	827.9	832.8	835.7	835.7	836.7	843.5	845.5	847.4
12.5°	808.4	817.2	825.0	831.8	835.7	840.6	841.6	844.5	851.3	854.2	854.2
15°	803.5	815.2	825.0	833.8	839.6	845.5	847.4	853.3	861.1	863.0	865.0
17.5°	794.8	806.5	818.2	828.9	836.7	841.6	847.4	853.3	863.0	865.9	866.9
20°	779.1	792.8	804.5	815.2	823.0	829.9	835.7	842.5	851.3	855.2	856.2
22.5°	755.7	769.4	781.1	792.8	800.6	806.5	812.3	820.1	828.9	832.8	832.8
25°	727.5	740.1	752.8	761.6	769.4	776.2	779.1	787.9	796.7	801.6	801.6
27.5°	691.4	703.1	714.8	724.5	729.4	735.3	740.1	747.9	754.8	758.7	762.6
30°	645.6	657.3	668.0	677.7	683.6	689.4	694.3	700.2	707.0	711.9	712.8
32.5°	595.8	605.6	616.3	626.0	631.9	633.9	638.7	644.6	650.4	654.3	655.3
35°	541.2	548.0	554.9	563.6	569.5	569.5	574.4	578.3	583.1	591.9	590.0
37.5°	476.9	486.6	491.5	494.4	498.3	502.2	503.2	508.1	513.9	515.9	518.8
40°	416.4	419.3	422.2	422.2	426.1	426.1	426.1	427.1	433.0	433.9	437.8
42.5°	355.9	355.9	353.0	350.1	351.1	350.1	345.2	345.2	348.1	352.0	352.0
45°	299.4	292.5	283.8	276.9	272.1	270.1	264.3	264.3	263.3	264.3	268.2
47.5°	251.6	239.9	225.3	211.6	206.7	202.8	194.1	190.2	188.2	189.2	191.1
50°	211.6	198.9	182.4	165.8	157.0	152.1	141.4	134.6	133.6	131.6	135.5
52.5°	182.4	166.8	149.2	129.7	120.9	113.1	101.4	95.6	91.7	91.7	92.6
55°	157.0	140.4	120.9	101.4	92.6	86.8	75.1	67.3	63.4	62.4	65.3
57.5°	135.5	119.9	100.4	80.9	72.2	65.3	53.6	46.8	43.9	41.9	42.9
60°	119.0	103.4	83.9	65.3	57.5	49.7	40.0	32.2	28.3	28.3	29.3
62.5°	103.4	88.7	71.2	53.6	46.8	40.0	29.3	22.4	19.5	18.5	19.5
65°	87.8	74.1	59.5	44.9	38.0	32.2	23.4	17.6	13.7	12.7	13.7
67.5°	71.2	60.5	47.8	36.1	30.2	25.4	17.6	12.7	9.8	8.8	9.8
70°	55.6	45.8	36.1	26.3	22.4	18.5	12.7	9.8	6.8	5.9	6.8
72.5°	40.0	33.2	25.4	18.5	15.6	12.7	8.8	6.8	4.9	3.9	4.9
75°	27.3	22.4	16.6	11.7	9.8	8.8	5.9	3.9	2.9	2.9	2.9
77.5°	17.6	13.7	10.7	7.8	5.9	4.9	2.9	2.0	2.0	2.0	2.0
80°	9.8	7.8	5.9	3.9	2.9	2.9	2.0	2.0	1.0	1.0	1.0
82.5°	5.9	3.9	2.9	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	2.9	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	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: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	841.6	842.5	839.6	843.5	840.6	844.5	844.5	840.6	841.6	839.6	843.5
5°	839.6	839.6	837.7	840.6	836.7	840.6	839.6	832.8	834.7	830.8	834.7
7.5°	839.6	837.7	834.7	837.7	832.8	835.7	831.8	825.0	823.0	818.2	818.2
10°	842.5	839.6	835.7	836.7	831.8	832.8	826.9	817.2	814.3	808.4	806.5
12.5°	849.4	846.4	840.6	842.5	835.7	835.7	827.9	816.2	810.4	802.6	800.6
15°	859.1	854.2	847.4	848.4	841.6	837.7	827.9	814.3	806.5	795.7	792.8
17.5°	861.1	856.2	847.4	847.4	838.6	833.8	822.1	806.5	796.7	786.0	780.1
20°	850.3	845.5	835.7	834.7	826.9	820.1	807.4	791.8	782.1	770.4	765.5
22.5°	827.9	822.1	813.3	812.3	804.5	800.6	786.9	771.3	761.6	749.9	746.0
25°	794.8	791.8	783.0	782.1	775.2	770.4	758.7	744.0	735.3	723.6	719.7
27.5°	755.7	752.8	744.0	744.0	736.2	733.3	722.6	708.9	702.1	691.4	686.5
30°	708.9	705.0	700.2	699.2	692.4	689.4	679.7	667.0	660.2	651.4	649.5
32.5°	653.4	650.4	647.5	646.5	639.7	636.8	629.9	617.3	611.4	603.6	600.7
35°	589.0	587.0	584.1	583.1	580.2	577.3	570.5	560.7	557.8	551.9	549.0
37.5°	514.9	516.8	514.9	514.9	512.0	512.9	507.1	501.2	498.3	494.4	492.5
40°	434.9	438.8	441.7	441.7	440.8	444.7	443.7	438.8	437.8	435.9	434.9
42.5°	354.0	355.9	361.8	365.7	364.7	374.5	375.4	379.3	382.3	380.3	381.3
45°	269.1	275.0	282.8	286.7	291.6	304.2	311.1	318.9	325.7	329.6	328.6
47.5°	194.1	200.9	209.7	215.5	224.3	239.9	257.4	267.2	276.9	281.8	286.7
50°	140.4	147.2	158.0	166.8	172.6	194.1	212.6	225.3	236.0	242.8	247.7
52.5°	98.5	106.3	118.0	125.8	134.6	155.0	176.5	191.1	202.8	211.6	216.5
55°	68.3	77.0	87.8	95.6	105.3	126.8	147.2	162.9	175.5	183.3	189.2
57.5°	47.8	55.6	66.3	73.1	82.9	103.4	123.8	139.4	152.1	159.9	166.8
60°	32.2	40.0	50.7	57.5	65.3	85.8	104.3	120.9	132.6	140.4	147.2
62.5°	22.4	29.3	40.0	46.8	53.6	71.2	88.7	103.4	115.1	123.8	129.7
65°	17.6	23.4	32.2	38.0	44.9	59.5	74.1	86.8	98.5	107.3	111.2
67.5°	12.7	18.5	25.4	30.2	35.1	47.8	60.5	70.2	80.9	87.8	92.6
70°	8.8	12.7	18.5	22.4	26.3	36.1	45.8	54.6	62.4	67.3	71.2
72.5°	6.8	8.8	12.7	15.6	18.5	25.4	33.2	40.0	45.8	49.7	53.6
75°	3.9	5.9	8.8	10.7	12.7	17.6	22.4	27.3	31.2	34.1	36.1
77.5°	2.0	2.9	4.9	5.9	7.8	10.7	14.6	17.6	20.5	22.4	24.4
80°	2.0	2.0	2.9	2.9	3.9	5.9	7.8	9.8	11.7	13.7	14.6
82.5°	1.0	1.0	2.0	2.0	2.0	2.9	3.9	5.9	6.8	7.8	8.8
85°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.9	3.9	4.9	4.9
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.9
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: P252558

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	840.6	842.5	841.6	843.5	840.6	839.6	841.6	838.6
5°	829.9	830.8	829.9	829.9	827.9	826.0	827.9	825.0
7.5°	813.3	813.3	810.4	810.4	806.5	804.5	804.5	803.5
10°	799.6	796.7	793.8	794.8	788.9	786.9	786.0	785.0
12.5°	792.8	790.8	786.0	786.0	780.1	778.2	777.2	776.2
15°	785.0	781.1	777.2	776.2	771.3	769.4	768.4	766.5
17.5°	771.3	768.4	763.5	763.5	758.7	757.7	755.7	754.8
20°	756.7	752.8	748.9	748.9	743.1	743.1	740.1	741.1
22.5°	736.2	733.3	729.4	729.4	724.5	723.6	720.6	719.7
25°	711.9	708.0	705.0	704.1	700.2	698.2	697.2	695.3
27.5°	679.7	676.8	673.8	671.9	667.0	666.0	663.1	664.1
30°	639.7	637.8	636.8	634.8	629.0	627.0	627.0	624.1
32.5°	595.8	592.9	590.9	588.0	583.1	582.2	579.2	580.2
35°	542.2	538.3	535.4	536.3	530.5	529.5	527.6	528.5
37.5°	486.6	482.7	478.8	477.8	472.9	472.9	470.0	470.0
40°	429.1	425.2	423.2	423.2	417.4	418.3	415.4	414.4
42.5°	377.4	373.5	372.5	371.5	368.6	367.6	364.7	365.7
45°	328.6	327.7	327.7	325.7	322.8	321.8	322.8	322.8
47.5°	285.7	286.7	285.7	285.7	283.8	285.7	283.8	284.7
50°	249.6	251.6	251.6	251.6	250.6	251.6	251.6	252.6
52.5°	219.4	222.3	221.4	222.3	221.4	223.3	222.3	223.3
55°	193.1	195.0	196.0	197.0	197.0	197.0	197.0	197.0
57.5°	168.7	171.6	172.6	173.6	173.6	175.5	173.6	173.6
60°	149.2	152.1	153.1	154.1	154.1	155.0	153.1	154.1
62.5°	131.6	134.6	134.6	135.5	135.5	135.5	133.6	134.6
65°	114.1	115.1	116.0	116.0	115.1	115.1	114.1	115.1
67.5°	94.6	95.6	94.6	94.6	93.6	93.6	91.7	92.6
70°	73.1	73.1	74.1	73.1	72.2	73.1	72.2	71.2
72.5°	54.6	54.6	54.6	53.6	53.6	52.7	53.6	53.6
75°	37.1	37.1	38.0	38.0	38.0	38.0	37.1	37.1
77.5°	24.4	24.4	24.4	24.4	25.4	24.4	24.4	24.4
80°	15.6	15.6	16.6	16.6	15.6	15.6	15.6	15.6
82.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
85°	5.9	5.9	5.9	5.9	4.9	4.9	4.9	4.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)