

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: P252564

Luminaire Tested: **LE_6B15D010 EC6B10209030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252564
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_6B15D010 EC6B10209030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1560.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

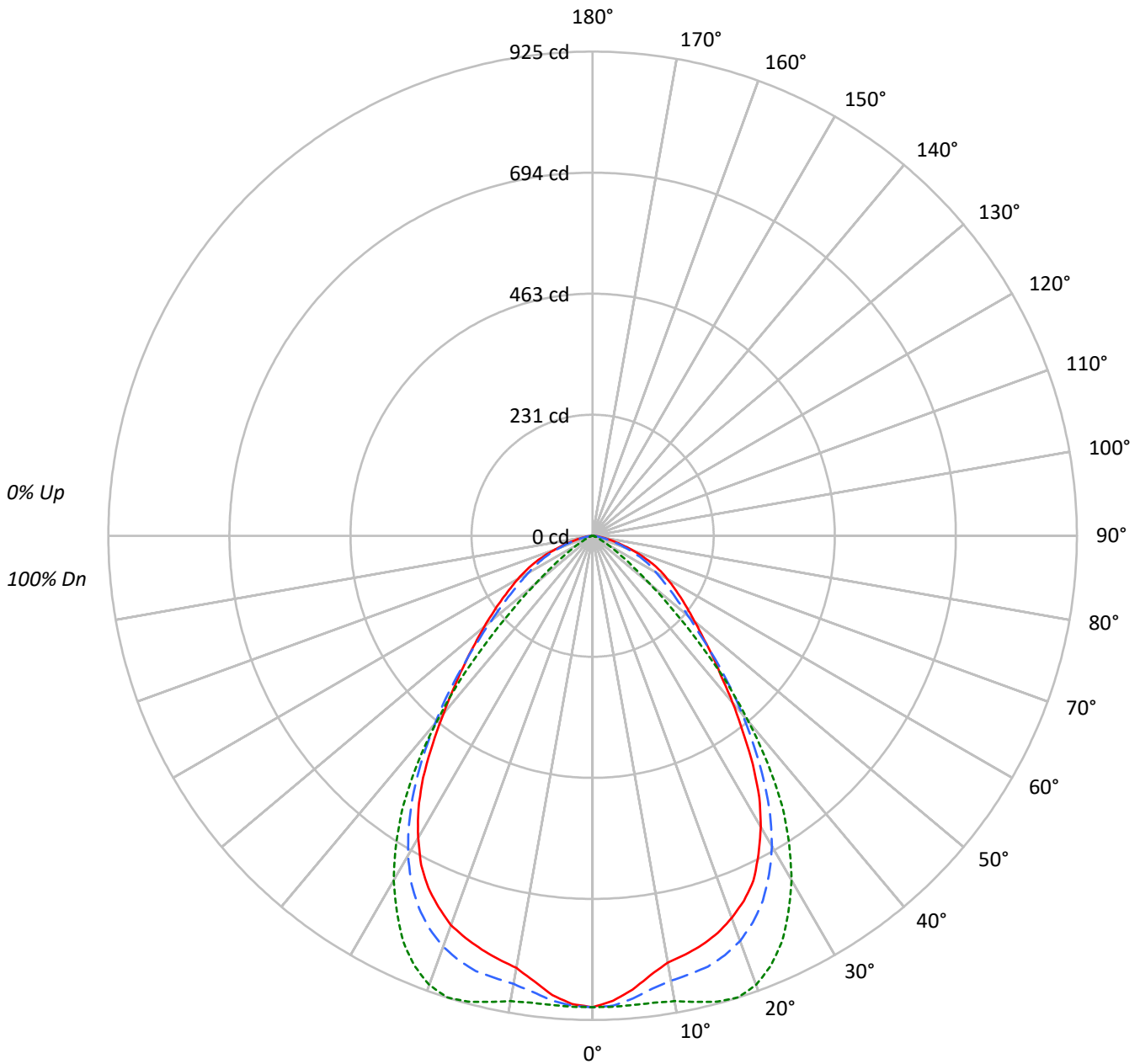
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	58756	58756	58756
5°	57009	58915	57690
10°	54839	59808	55528
15°	54642	62240	55276
20°	53931	63394	54945
25°	52319	61612	53442
30°	48402	57261	50202
35°	42458	50335	44951
40°	35386	39466	37686
45°	29783	26028	31794
50°	25780	14270	27363
55°	23329	7575	23932
60°	21464	3941	21464
65°	19451	2084	18972
70°	15680	1183	14497
75°	10789	781	9982
80°	7063	376	6237
85°	4641	749	3892



TEST NUMBER: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	5.4
10°-20°	242.9	15.6
20°-30°	358.8	23.0
30°-40°	362.4	23.2
40°-50°	249.8	16.0
50°-60°	143.5	9.2
60°-70°	83.5	5.4
70°-80°	30.5	2.0
80°-90°	4.6	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°	685.7	44.0
0°-40°	1048.1	67.2
0°-60°	1441.4	92.4
0°-90°	1560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	901	901	901	901	901	
5°	870	887	900	891	881	82
15°	809	852	922	861	818	228
25°	727	770	856	785	742	331
35°	533	570	632	596	564	331
45°	323	327	282	348	345	251
55°	205	180	67	187	210	185
65°	126	106	14	105	123	123
75°	43	34	3	33	40	48
85°	6	3	1	4	5	8
90°	0	0	0	0	0	



TEST NUMBER: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	889.2	890.2	891.2	890.2	891.2	895.5	892.4	894.4	894.4	895.5	898.6
5°	870.5	870.5	872.5	871.5	874.6	878.8	875.6	878.8	879.9	881.9	887.1
7.5°	846.5	846.5	847.6	847.6	851.8	855.9	853.8	858.0	862.1	866.2	872.5
10°	827.8	829.9	829.9	830.9	835.1	840.2	839.2	844.5	848.6	854.9	863.1
12.5°	819.5	820.5	820.5	822.6	826.8	832.0	830.9	836.1	842.4	849.6	858.0
15°	809.0	811.1	810.1	812.1	816.4	821.5	820.5	825.8	833.0	840.2	851.8
17.5°	795.5	796.5	797.6	797.6	801.8	805.9	805.9	811.1	819.5	827.8	840.2
20°	776.8	778.9	778.9	779.9	783.0	789.2	788.2	793.4	801.8	810.1	823.6
22.5°	754.9	755.9	755.9	757.0	762.1	765.2	766.4	770.5	777.8	787.1	799.6
25°	726.8	727.9	726.8	729.9	732.0	738.2	736.1	741.4	749.6	757.0	769.5
27.5°	686.1	688.2	688.2	689.2	694.5	699.8	699.8	704.9	712.2	717.4	729.9
30°	642.5	645.6	642.5	647.6	649.8	653.9	657.0	660.1	666.4	673.6	685.1
32.5°	592.5	591.4	592.5	594.5	600.8	603.9	606.0	609.1	615.4	621.6	631.0
35°	533.1	535.2	536.2	540.4	540.4	545.6	546.6	548.8	558.1	562.2	569.5
37.5°	470.6	472.8	473.8	475.9	480.0	482.1	485.2	488.4	494.6	501.9	506.0
40°	415.5	415.5	416.5	418.6	421.8	422.8	425.9	430.0	434.2	440.5	444.6
42.5°	363.4	364.4	363.4	365.5	368.6	372.8	371.8	376.9	378.0	382.1	385.2
45°	322.8	322.8	320.8	322.8	322.8	327.0	325.9	328.0	327.0	329.0	327.0
47.5°	284.2	285.2	284.2	285.2	285.2	285.2	286.4	284.2	285.2	282.1	275.9
50°	254.0	255.1	253.0	254.0	253.0	252.0	253.0	249.9	248.9	244.8	238.5
52.5°	228.0	227.0	226.0	226.0	226.0	224.9	223.9	220.8	217.6	213.5	206.1
55°	205.1	204.1	203.0	203.0	201.0	199.9	199.9	196.8	193.6	188.5	180.1
57.5°	184.2	183.2	182.2	182.2	181.1	179.1	179.1	176.0	171.8	165.5	158.2
60°	164.5	164.5	164.5	163.5	163.5	161.4	161.4	158.2	154.1	147.9	139.5
62.5°	146.9	145.8	145.8	145.8	145.8	144.8	143.8	141.6	137.5	131.2	123.9
65°	126.0	126.0	126.0	126.0	125.0	125.0	125.0	121.9	119.8	113.5	106.2
67.5°	103.1	103.1	103.1	103.1	102.0	103.1	103.1	101.0	98.9	92.6	86.4
70°	82.2	81.2	80.1	81.2	80.1	80.1	81.2	79.1	78.1	72.9	66.6
72.5°	60.4	61.4	60.4	60.4	60.4	59.4	60.4	59.4	57.2	53.1	49.0
75°	42.8	43.8	43.8	42.8	42.8	42.8	41.6	41.6	39.6	36.5	34.4
77.5°	29.1	29.1	29.1	29.1	28.1	28.1	28.1	27.1	26.0	24.0	21.9
80°	18.8	18.8	18.8	18.8	17.8	17.8	17.8	16.6	16.6	14.6	12.5
82.5°	11.5	11.5	11.5	11.5	11.5	11.5	10.4	10.4	9.4	8.4	7.2
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.2	5.2	4.1	3.1
87.5°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	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: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	896.5	897.5	897.5	897.5	900.6	901.8	898.6	895.5	901.8	900.6	902.8
5°	886.1	889.2	891.2	892.4	895.5	897.5	894.4	893.4	898.6	899.6	900.6
7.5°	873.6	878.8	884.0	886.1	890.2	892.4	891.2	891.2	897.5	899.6	899.6
10°	865.2	872.5	878.8	884.0	889.2	892.4	892.4	893.4	900.6	902.8	904.9
12.5°	863.1	872.5	880.9	888.1	892.4	897.5	898.6	901.8	909.0	912.1	912.1
15°	858.0	870.5	880.9	890.2	896.5	902.8	904.9	911.1	919.4	921.5	923.6
17.5°	848.6	861.1	873.6	885.0	893.4	898.6	904.9	911.1	921.5	924.6	925.6
20°	832.0	846.5	859.0	870.5	878.8	886.1	892.4	899.6	909.0	913.1	914.2
22.5°	807.0	821.5	834.0	846.5	854.9	861.1	867.4	875.6	885.0	889.2	889.2
25°	776.8	790.2	803.9	813.2	821.5	828.9	832.0	841.4	850.6	855.9	855.9
27.5°	738.2	750.8	763.2	773.6	778.9	785.1	790.2	798.6	805.9	810.1	814.2
30°	689.2	701.8	713.2	723.6	729.9	736.1	741.4	747.6	754.9	760.1	761.1
32.5°	636.2	646.6	658.0	668.5	674.8	676.8	682.0	688.2	694.5	698.6	699.8
35°	577.9	585.1	592.5	601.9	608.1	608.1	613.2	617.5	622.6	632.0	630.0
37.5°	509.1	519.6	524.8	527.9	532.1	536.2	537.2	542.5	548.8	550.8	553.9
40°	444.6	447.8	450.9	450.9	455.0	455.0	455.0	456.0	462.2	463.4	467.5
42.5°	380.0	380.0	376.9	373.8	374.9	373.8	368.6	368.6	371.8	375.9	375.9
45°	319.6	312.4	303.0	295.8	290.5	288.4	282.1	282.1	281.1	282.1	286.4
47.5°	268.6	256.1	240.5	226.0	220.8	216.6	207.2	203.0	201.0	202.0	204.1
50°	226.0	212.4	194.8	177.0	167.6	162.4	151.0	143.8	142.6	140.6	144.8
52.5°	194.8	178.0	159.2	138.5	129.1	120.8	108.2	102.0	97.9	97.9	98.9
55°	167.6	149.9	129.1	108.2	98.9	92.6	80.1	71.9	67.6	66.6	69.8
57.5°	144.8	128.1	107.2	86.4	77.0	69.8	57.2	50.0	46.9	44.8	45.9
60°	127.0	110.4	89.5	69.8	61.4	53.1	42.8	34.4	30.2	30.2	31.2
62.5°	110.4	94.8	76.0	57.2	50.0	42.8	31.2	24.0	20.9	19.8	20.9
65°	93.8	79.1	63.5	47.9	40.6	34.4	25.0	18.8	14.6	13.5	14.6
67.5°	76.0	64.5	51.0	38.5	32.2	27.1	18.8	13.5	10.4	9.4	10.4
70°	59.4	49.0	38.5	28.1	24.0	19.8	13.5	10.4	7.2	6.2	7.2
72.5°	42.8	35.4	27.1	19.8	16.6	13.5	9.4	7.2	5.2	4.1	5.2
75°	29.1	24.0	17.8	12.5	10.4	9.4	6.2	4.1	3.1	3.1	3.1
77.5°	18.8	14.6	11.5	8.4	6.2	5.2	3.1	2.1	2.1	2.1	2.1
80°	10.4	8.4	6.2	4.1	3.1	3.1	2.1	2.1	1.0	1.0	1.0
82.5°	6.2	4.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.1	2.1	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: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	898.6	899.6	896.5	900.6	897.5	901.8	901.8	897.5	898.6	896.5	900.6
5°	896.5	896.5	894.4	897.5	893.4	897.5	896.5	889.2	891.2	887.1	891.2
7.5°	896.5	894.4	891.2	894.4	889.2	892.4	888.1	880.9	878.8	873.6	873.6
10°	899.6	896.5	892.4	893.4	888.1	889.2	883.0	872.5	869.4	863.1	861.1
12.5°	906.9	903.8	897.5	899.6	892.4	892.4	884.0	871.5	865.2	856.9	854.9
15°	917.4	912.1	904.9	905.9	898.6	894.4	884.0	869.4	861.1	849.6	846.5
17.5°	919.4	914.2	904.9	904.9	895.5	890.2	877.8	861.1	850.6	839.2	833.0
20°	908.0	902.8	892.4	891.2	883.0	875.6	862.1	845.5	835.1	822.6	817.4
22.5°	884.0	877.8	868.4	867.4	859.0	854.9	840.2	823.6	813.2	800.8	796.5
25°	848.6	845.5	836.1	835.1	827.8	822.6	810.1	794.5	785.1	772.6	768.4
27.5°	807.0	803.9	794.5	794.5	786.1	783.0	771.5	757.0	749.6	738.2	733.0
30°	757.0	752.8	747.6	746.6	739.2	736.1	725.8	712.2	704.9	695.5	693.5
32.5°	697.6	694.5	691.4	690.4	683.0	679.9	672.6	659.1	652.9	644.5	641.4
35°	628.9	626.9	623.8	622.6	619.5	616.4	609.1	598.8	595.6	589.4	586.2
37.5°	549.8	551.9	549.8	549.8	546.6	547.8	541.5	535.2	532.1	527.9	525.9
40°	464.4	468.5	471.6	471.6	470.6	474.8	473.8	468.5	467.5	465.4	464.4
42.5°	378.0	380.0	386.2	390.5	389.4	399.9	400.9	405.0	408.1	406.1	407.1
45°	287.4	293.6	302.0	306.1	311.4	324.9	332.1	340.5	347.8	351.9	350.9
47.5°	207.2	214.5	223.9	230.1	239.5	256.1	274.9	285.2	295.8	300.9	306.1
50°	149.9	157.2	168.6	178.0	184.2	207.2	227.0	240.5	252.0	259.2	264.5
52.5°	105.1	113.5	126.0	134.4	143.8	165.5	188.5	204.1	216.6	226.0	231.1
55°	72.9	82.2	93.8	102.0	112.5	135.4	157.2	173.9	187.4	195.8	202.0
57.5°	51.0	59.4	70.8	78.1	88.5	110.4	132.2	148.9	162.4	170.8	178.0
60°	34.4	42.8	54.1	61.4	69.8	91.6	111.4	129.1	141.6	149.9	157.2
62.5°	24.0	31.2	42.8	50.0	57.2	76.0	94.8	110.4	122.9	132.2	138.5
65°	18.8	25.0	34.4	40.6	47.9	63.5	79.1	92.6	105.1	114.5	118.8
67.5°	13.5	19.8	27.1	32.2	37.5	51.0	64.5	75.0	86.4	93.8	98.9
70°	9.4	13.5	19.8	24.0	28.1	38.5	49.0	58.2	66.6	71.9	76.0
72.5°	7.2	9.4	13.5	16.6	19.8	27.1	35.4	42.8	49.0	53.1	57.2
75°	4.1	6.2	9.4	11.5	13.5	18.8	24.0	29.1	33.4	36.5	38.5
77.5°	2.1	3.1	5.2	6.2	8.4	11.5	15.6	18.8	21.9	24.0	26.0
80°	2.1	2.1	3.1	3.1	4.1	6.2	8.4	10.4	12.5	14.6	15.6
82.5°	1.0	1.0	2.1	2.1	2.1	3.1	4.1	6.2	7.2	8.4	9.4
85°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	4.1	5.2	5.2
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1
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: P252564

CATALOG NUMBER: LE_6B15D010 EC6B10209030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	897.5	899.6	898.6	900.6	897.5	896.5	898.6	895.5
5°	886.1	887.1	886.1	886.1	884.0	881.9	884.0	880.9
7.5°	868.4	868.4	865.2	865.2	861.1	859.0	859.0	858.0
10°	853.8	850.6	847.6	848.6	842.4	840.2	839.2	838.2
12.5°	846.5	844.5	839.2	839.2	833.0	830.9	829.9	828.9
15°	838.2	834.0	829.9	828.9	823.6	821.5	820.5	818.4
17.5°	823.6	820.5	815.2	815.2	810.1	809.0	807.0	805.9
20°	808.0	803.9	799.6	799.6	793.4	793.4	790.2	791.4
22.5°	786.1	783.0	778.9	778.9	773.6	772.6	769.5	768.4
25°	760.1	755.9	752.8	751.8	747.6	745.5	744.5	742.4
27.5°	725.8	722.6	719.5	717.4	712.2	711.1	708.0	709.1
30°	683.0	681.0	679.9	677.9	671.6	669.5	669.5	666.4
32.5°	636.2	633.1	631.0	627.9	622.6	621.6	618.5	619.5
35°	578.9	574.8	571.6	572.6	566.4	565.4	563.2	564.4
37.5°	519.6	515.4	511.2	510.2	505.0	505.0	501.9	501.9
40°	458.1	454.0	451.9	451.9	445.6	446.8	443.6	442.5
42.5°	403.0	398.8	397.8	396.8	393.6	392.5	389.4	390.5
45°	350.9	349.9	349.9	347.8	344.6	343.6	344.6	344.6
47.5°	305.1	306.1	305.1	305.1	303.0	305.1	303.0	304.0
50°	266.5	268.6	268.6	268.6	267.6	268.6	268.6	269.6
52.5°	234.2	237.4	236.4	237.4	236.4	238.5	237.4	238.5
55°	206.1	208.2	209.2	210.4	210.4	210.4	210.4	210.4
57.5°	180.1	183.2	184.2	185.4	185.4	187.4	185.4	185.4
60°	159.2	162.4	163.5	164.5	164.5	165.5	163.5	164.5
62.5°	140.6	143.8	143.8	144.8	144.8	144.8	142.6	143.8
65°	121.9	122.9	123.9	123.9	122.9	122.9	121.9	122.9
67.5°	101.0	102.0	101.0	101.0	100.0	100.0	97.9	98.9
70°	78.1	78.1	79.1	78.1	77.0	78.1	77.0	76.0
72.5°	58.2	58.2	58.2	57.2	57.2	56.2	57.2	57.2
75°	39.6	39.6	40.6	40.6	40.6	40.6	39.6	39.6
77.5°	26.0	26.0	26.0	26.0	27.1	26.0	26.0	26.0
80°	16.6	16.6	17.8	17.8	16.6	16.6	16.6	16.6
82.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
85°	6.2	6.2	6.2	6.2	5.2	5.2	5.2	5.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1
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)