

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: P136276

Luminaire Tested: **LD6A15D010TE ERW6A15927 6LW111LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15927 6LW111LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1372.3 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

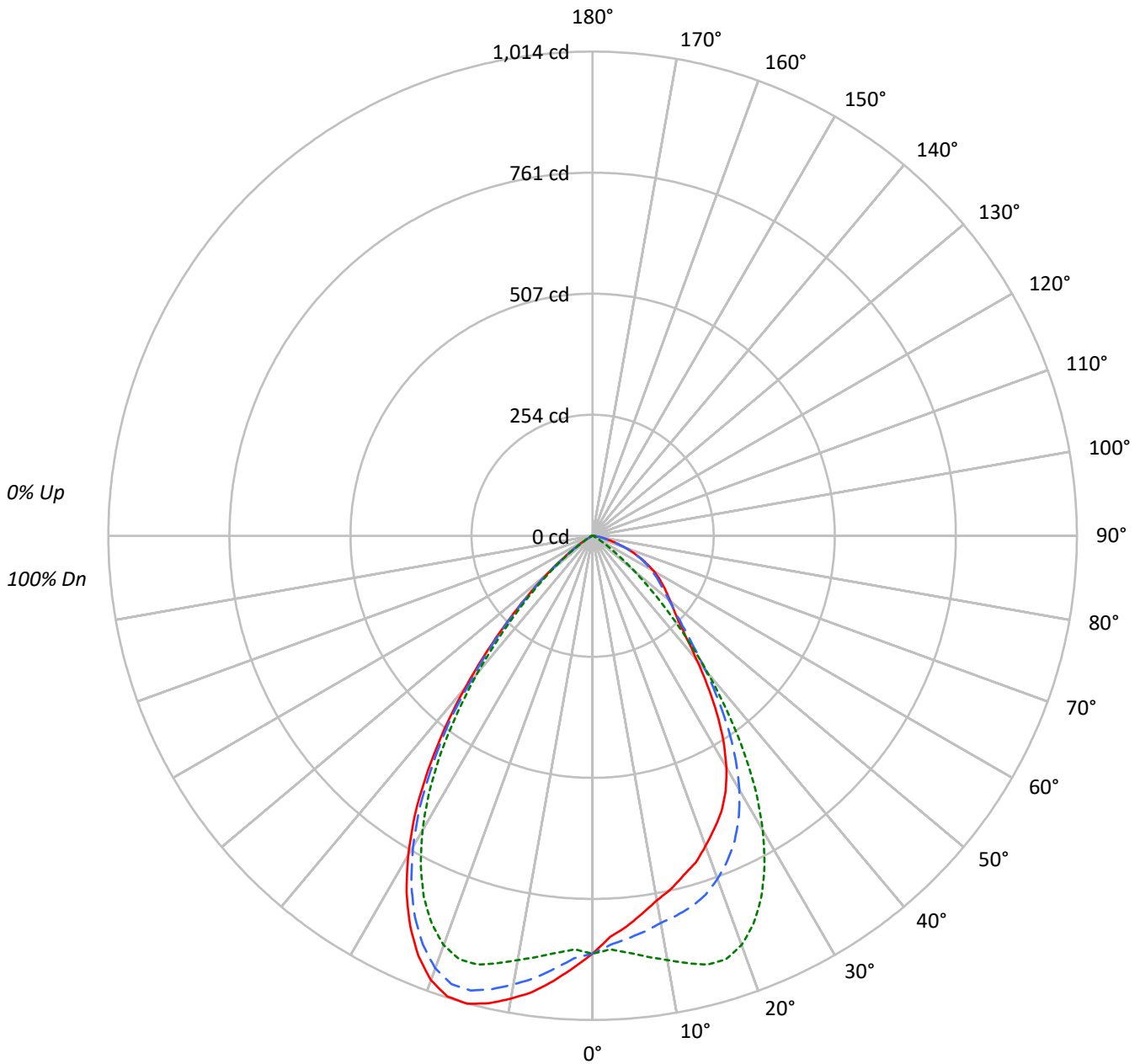
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82																			
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74																			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60																			
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55																			
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50																			
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46																			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57079	57079	57079
5°	53780	57421	61259
10°	51355	59768	65200
15°	49724	62787	68521
20°	47995	63318	68740
25°	45898	60165	65010
30°	42217	53698	58188
35°	36079	43940	47978
40°	28854	31843	35259
45°	23509	20178	22614
50°	21497	11094	12586
55°	20440	4561	5335
60°	19246	1657	1657
65°	17182	911	756
70°	13791	744	553
75°	9100	479	479
80°	4771	376	376
85°	2171	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	6.2
10°-20°	253.0	18.4
20°-30°	364.1	26.5
30°-40°	334.4	24.4
40°-50°	192.0	14.0
50°-60°	84.8	6.2
60°-70°	41.7	3.0
70°-80°	16.0	1.2
80°-90°	1.8	0.1
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°	701.5	51.1
0°-40°	1036.0	75.5
0°-60°	1312.8	95.7
0°-90°	1372.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	875	875	875	875	875	
5°	821	846	877	910	935	77
15°	736	804	930	986	1014	207
25°	638	704	836	881	903	291
35°	453	496	552	583	602	281
45°	255	266	219	239	245	202
55°	180	171	40	44	47	161
65°	111	107	6	4	5	109
75°	36	38	2	2	2	40
85°	3	3	0	0	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	840.7	845.6	840.7	847.5	851.4	853.4	851.4	846.5	853.4	857.3	856.3
5°	821.2	825.0	821.2	828.0	832.9	837.7	835.8	832.9	840.7	846.5	847.5
7.5°	797.7	802.6	799.7	806.5	812.3	818.2	818.2	817.2	827.0	835.8	838.8
10°	775.2	779.2	777.2	784.0	790.9	797.7	799.7	800.6	811.4	823.1	829.9
12.5°	757.7	759.6	757.7	765.4	772.4	780.1	784.0	786.0	799.7	814.3	823.1
15°	736.2	741.0	739.1	746.9	754.8	763.5	768.4	772.4	787.0	803.6	816.3
17.5°	717.6	719.6	717.6	726.4	733.3	743.1	748.9	753.7	769.4	787.9	801.6
20°	691.3	695.2	694.2	702.0	709.8	718.7	724.5	729.3	745.9	764.5	780.1
22.5°	665.0	668.8	668.8	676.7	682.5	692.2	697.1	702.0	717.6	737.2	750.8
25°	637.6	640.6	639.5	646.4	653.2	662.9	666.9	671.8	686.4	704.0	716.6
27.5°	603.4	605.4	607.3	613.2	618.1	626.8	629.8	634.7	646.4	662.9	674.7
30°	560.4	562.4	565.3	570.2	574.2	582.9	584.8	588.8	600.5	614.1	624.9
32.5°	509.7	510.7	515.6	519.4	524.3	530.2	535.1	536.0	544.9	558.5	566.3
35°	453.0	454.1	458.9	461.8	466.7	472.6	476.4	477.4	485.3	496.0	500.9
37.5°	394.5	400.4	399.3	402.3	407.2	412.1	415.9	415.9	421.8	430.6	432.5
40°	338.8	341.7	344.6	346.6	350.5	354.4	357.3	357.3	361.3	367.1	367.1
42.5°	290.9	295.8	295.8	297.8	300.7	304.7	306.6	305.6	307.5	310.5	308.5
45°	254.8	256.8	257.8	260.7	261.7	265.6	266.5	264.6	265.6	265.6	259.7
47.5°	231.4	231.4	231.4	233.4	234.3	237.2	237.2	234.3	233.4	232.4	224.5
50°	211.8	211.8	212.8	214.8	215.8	216.8	216.8	212.8	211.8	208.0	197.2
52.5°	195.3	196.3	196.3	198.2	199.2	200.1	199.2	195.3	192.3	188.4	175.7
55°	179.7	180.6	181.6	183.6	183.6	183.6	182.5	178.7	175.7	170.8	158.1
57.5°	164.0	165.0	165.0	167.0	167.9	167.9	167.0	163.0	160.2	156.2	142.6
60°	147.5	147.5	148.4	150.4	150.4	151.3	150.4	147.5	144.5	139.6	127.9
62.5°	128.8	129.9	130.9	132.8	133.7	133.7	133.7	130.9	128.8	125.0	113.3
65°	111.3	111.3	112.3	114.2	114.2	117.2	115.2	113.3	111.3	107.4	97.6
67.5°	90.8	91.8	91.8	93.8	94.7	95.7	95.7	93.8	92.7	89.8	81.0
70°	72.3	72.3	73.2	74.2	75.2	76.2	76.2	75.2	74.2	71.3	64.5
72.5°	52.7	53.7	53.7	54.7	56.6	57.6	57.6	57.6	55.6	53.7	48.8
75°	36.1	37.1	37.1	38.0	39.1	40.1	40.1	40.1	39.1	38.0	34.2
77.5°	22.5	22.5	23.4	23.4	24.4	25.4	26.3	26.3	25.4	24.4	22.5
80°	12.7	12.7	13.6	13.6	13.6	14.6	15.7	15.7	15.7	14.6	12.7
82.5°	6.8	6.8	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8	6.8
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	856.3	863.2	868.0	860.2	867.0	873.8	881.7	867.0	880.7	872.9	875.8
5°	851.4	859.2	866.0	861.1	870.0	878.7	889.5	876.8	892.4	886.6	891.4
7.5°	844.6	855.3	865.1	863.2	874.9	886.6	900.2	889.5	906.1	903.1	909.0
10°	838.8	853.4	866.0	866.0	881.7	895.3	909.9	902.2	921.7	918.8	926.6
12.5°	834.8	853.4	870.0	872.9	891.4	907.1	924.6	916.9	938.3	935.4	944.2
15°	830.9	852.4	871.9	877.8	898.3	916.9	935.4	929.6	951.9	949.1	957.8
17.5°	818.2	843.6	865.1	872.9	895.3	914.8	934.4	929.6	951.9	949.1	957.8
20°	796.8	822.1	845.6	854.3	876.8	897.3	915.8	912.0	934.4	931.5	939.3
22.5°	769.4	793.8	816.3	825.0	846.5	865.1	883.6	879.7	901.2	896.3	905.1
25°	731.3	756.7	778.2	785.1	804.6	823.1	839.7	835.8	856.3	850.5	859.2
27.5°	692.2	710.8	728.4	734.2	751.8	767.5	783.0	779.2	798.7	791.9	800.6
30°	639.5	654.2	669.8	672.7	689.4	702.0	715.7	712.8	729.3	723.5	731.3
32.5°	578.0	590.7	601.4	602.4	616.1	626.8	638.5	636.6	651.2	646.4	652.3
35°	510.7	518.4	525.3	524.3	535.1	542.8	553.6	551.7	565.3	560.4	566.3
37.5°	439.4	443.3	445.2	441.3	449.2	455.0	462.8	461.8	473.6	469.6	475.5
40°	370.1	370.1	367.1	360.3	365.2	368.1	373.9	373.9	382.8	378.8	383.7
42.5°	306.6	302.6	295.8	286.1	287.1	290.9	290.9	290.9	297.8	293.9	302.6
45°	254.8	246.1	235.3	222.6	218.7	220.7	218.7	218.7	223.6	220.7	227.5
47.5°	214.8	204.1	185.5	169.9	163.0	162.1	159.1	159.1	162.1	162.1	165.0
50°	184.6	168.9	146.4	127.9	118.2	115.2	111.3	109.3	112.3	111.3	113.3
52.5°	160.2	140.6	114.2	92.7	83.0	76.2	73.2	69.4	70.3	70.3	71.3
55°	139.6	117.2	88.9	66.4	55.6	47.8	43.9	40.1	40.1	39.1	40.1
57.5°	124.0	100.6	72.3	49.8	38.0	30.3	26.3	22.5	21.5	21.5	21.5
60°	110.3	87.9	59.6	39.1	27.4	19.5	15.7	12.7	11.7	10.8	10.8
62.5°	96.7	76.2	50.7	32.2	20.5	14.6	10.8	7.8	6.8	5.9	5.9
65°	83.0	65.4	43.9	27.4	17.6	11.7	7.8	5.9	4.9	3.9	3.9
67.5°	68.3	53.7	37.1	22.5	14.6	9.8	6.8	4.9	3.9	2.9	2.9
70°	54.7	42.9	29.3	18.5	11.7	7.8	4.9	3.9	2.9	2.9	2.9
72.5°	41.0	32.2	22.5	13.6	8.7	5.9	3.9	2.9	1.9	1.9	1.9
75°	29.3	23.4	15.7	9.8	5.9	3.9	2.9	1.9	1.9	1.9	1.9
77.5°	18.5	14.6	9.8	5.9	3.9	1.9	1.9	1.0	1.0	1.0	1.0
80°	10.8	8.7	5.9	3.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	5.9	3.9	2.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0
85°	1.9	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	883.6	881.7	888.5	891.4	889.5	885.5	898.3	901.2	892.4	896.3	896.3
5°	901.2	901.2	909.9	913.9	913.9	909.9	924.6	929.6	920.7	924.6	925.6
7.5°	920.7	920.7	931.5	936.4	937.3	934.4	949.1	953.0	947.1	951.0	951.9
10°	938.3	938.3	951.0	955.9	956.8	954.0	968.6	973.5	966.6	970.5	971.5
12.5°	956.8	957.8	970.5	975.4	975.4	972.5	987.1	992.0	984.2	989.1	988.1
15°	970.5	971.5	984.2	989.1	990.1	986.1	999.8	1005.6	997.9	1000.8	1000.8
17.5°	969.5	970.5	982.2	987.1	987.1	984.2	995.9	1002.8	995.0	997.9	996.9
20°	950.0	951.0	963.7	967.6	967.6	963.7	974.4	981.2	973.5	975.4	974.4
22.5°	914.8	915.8	927.5	931.5	932.4	927.5	938.3	946.1	937.3	938.3	937.3
25°	869.0	869.0	881.7	881.7	886.6	880.7	888.5	899.3	890.4	890.4	887.6
27.5°	809.5	809.5	822.1	822.1	828.0	822.1	834.8	839.7	831.8	830.9	830.9
30°	740.1	740.1	751.8	751.8	756.7	751.8	764.5	769.4	761.6	760.6	761.6
32.5°	661.0	661.0	672.7	671.8	677.6	673.7	685.4	689.4	683.5	680.5	682.5
35°	574.2	579.0	585.8	584.8	590.7	582.9	597.5	600.5	595.6	596.5	593.7
37.5°	482.3	487.2	492.1	492.1	497.0	495.0	503.8	506.7	502.9	503.8	500.9
40°	390.6	395.5	399.3	399.3	404.2	398.3	410.1	413.0	409.1	405.2	407.2
42.5°	303.7	308.5	312.4	311.5	316.4	315.4	322.2	324.2	321.2	320.2	318.3
45°	228.5	229.4	236.3	239.2	239.2	239.2	244.1	245.1	242.1	242.1	241.2
47.5°	165.0	167.0	171.9	173.8	174.8	173.8	175.7	179.7	176.7	176.7	177.7
50°	114.2	115.2	119.1	121.1	121.1	121.1	122.0	125.0	123.0	123.0	121.1
52.5°	73.2	73.2	76.2	77.2	77.2	77.2	78.1	80.0	78.1	79.1	80.0
55°	41.0	41.0	42.9	43.9	43.9	43.9	44.9	45.9	44.9	45.9	45.9
57.5°	21.5	21.5	22.5	22.5	23.4	23.4	23.4	24.4	24.4	24.4	24.4
60°	10.8	10.8	10.8	11.7	11.7	11.7	11.7	12.7	12.7	12.7	12.7
62.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9	1.9	1.9
75°	1.0	1.9	1.9	1.0	1.0	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	874.9	874.9	874.9	874.9
2.5°	888.5	889.5	906.1	905.1
5°	917.8	918.8	935.4	935.4
7.5°	944.2	945.1	962.7	963.7
10°	963.7	965.7	982.2	984.2
12.5°	982.2	982.2	998.8	1002.8
15°	993.9	993.9	1009.6	1014.5
17.5°	990.1	990.1	1005.6	1011.5
20°	968.6	967.6	982.2	990.1
22.5°	931.5	932.4	944.2	953.0
25°	884.6	882.7	895.3	903.1
27.5°	826.0	827.0	834.8	843.6
30°	755.7	757.7	763.5	772.4
32.5°	676.7	679.6	683.5	692.2
35°	589.7	592.7	594.6	602.4
37.5°	496.0	499.9	500.9	508.7
40°	403.2	407.2	407.2	414.0
42.5°	316.4	319.3	318.3	324.2
45°	239.2	241.2	240.2	245.1
47.5°	174.8	176.7	174.8	178.7
50°	121.1	123.0	121.1	124.0
52.5°	78.1	79.1	77.2	80.0
55°	44.9	45.9	44.9	46.9
57.5°	25.4	24.4	23.4	25.4
60°	12.7	12.7	12.7	12.7
62.5°	6.8	6.8	6.8	6.8
65°	3.9	3.9	3.9	4.9
67.5°	3.9	3.9	3.9	3.9
70°	2.9	2.9	2.9	2.9
72.5°	1.9	1.9	1.9	1.9
75°	1.9	1.9	1.9	1.9
77.5°	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	1.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



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













(END OF REPORT)