

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: P136240

Luminaire Tested: **LD6A10D010TE ERW6A10827 6LW111LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136240
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: LD6A10D010TE ERW6A10827 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: 1150.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

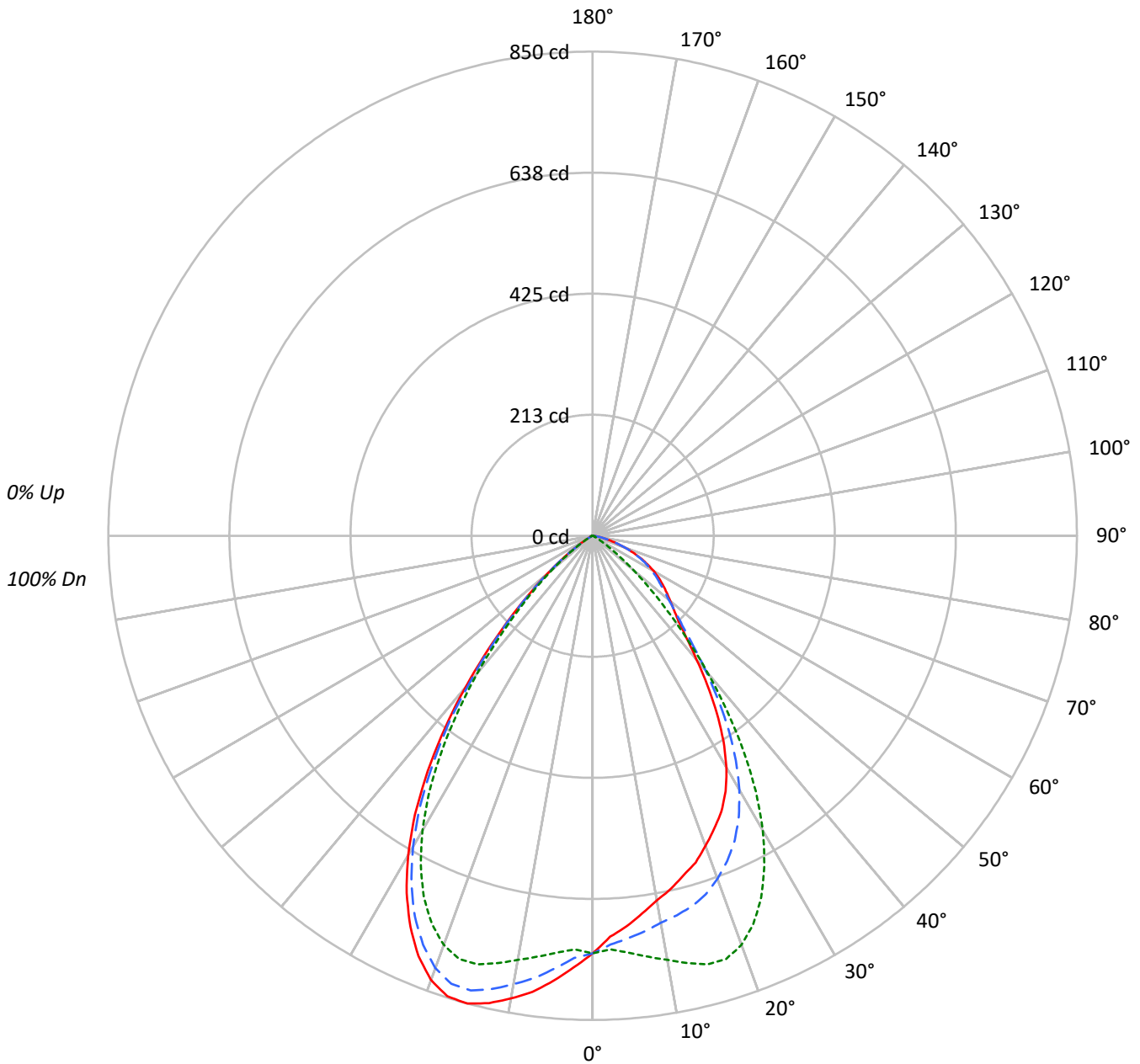
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

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°	47828	47828	47828
5°	45064	48122	51337
10°	43041	50083	54641
15°	41667	52615	57418
20°	40219	53057	57604
25°	38462	50418	54485
30°	35384	44997	48756
35°	30241	36819	40204
40°	24179	26691	29544
45°	19708	16912	18951
50°	18026	9297	10545
55°	17130	3810	4470
60°	16127	1383	1383
65°	14403	756	633
70°	11540	629	477
75°	7638	403	403
80°	3982	301	301
85°	1871	0	0



TEST NUMBER: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	6.2
10°-20°	212.1	18.4
20°-30°	305.1	26.5
30°-40°	280.3	24.4
40°-50°	160.9	14.0
50°-60°	71.1	6.2
60°-70°	34.9	3.0
70°-80°	13.4	1.2
80°-90°	1.5	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°	587.9	51.1
0°-40°	868.1	75.5
0°-60°	1100.2	95.7
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	688	709	735	763	784	65
15°	617	673	779	826	850	174
25°	534	590	700	738	757	244
35°	380	416	462	488	505	235
45°	214	223	183	200	205	170
55°	151	143	34	37	39	135
65°	93	90	5	3	4	91
75°	30	32	2	2	2	34
85°	2	2	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	704.5	708.6	704.5	710.2	713.5	715.1	713.5	709.4	715.1	718.4	717.6
5°	688.1	691.4	688.1	693.9	697.9	702.0	700.4	697.9	704.5	709.4	710.2
7.5°	668.5	672.6	670.1	675.9	680.8	685.7	685.7	684.9	693.0	700.4	702.9
10°	649.7	652.9	651.3	657.0	662.8	668.5	670.1	670.9	679.9	689.8	695.5
12.5°	634.9	636.6	634.9	641.5	647.2	653.8	657.0	658.7	670.1	682.4	689.8
15°	616.9	621.0	619.4	625.9	632.5	639.9	643.9	647.2	659.5	673.4	684.0
17.5°	601.4	603.0	601.4	608.8	614.5	622.7	627.6	631.7	644.8	660.3	671.8
20°	579.3	582.6	581.8	588.3	594.9	602.2	607.1	611.2	625.1	640.7	653.8
22.5°	557.2	560.5	560.5	567.0	571.9	580.1	584.2	588.3	601.4	617.8	629.2
25°	534.3	536.8	535.9	541.7	547.4	555.6	558.8	562.9	575.2	589.9	600.6
27.5°	505.7	507.3	508.9	513.8	517.9	525.3	527.8	531.8	541.7	555.6	565.4
30°	469.7	471.3	473.8	477.8	481.1	488.5	490.1	493.4	503.2	514.7	523.7
32.5°	427.1	427.9	432.0	435.3	439.4	444.3	448.4	449.2	456.6	468.0	474.6
35°	379.7	380.5	384.6	387.0	391.1	396.0	399.3	400.1	406.7	415.7	419.8
37.5°	330.6	335.5	334.7	337.1	341.2	345.3	348.6	348.6	353.5	360.8	362.5
40°	283.9	286.4	288.8	290.5	293.7	297.0	299.5	299.5	302.7	307.7	307.7
42.5°	243.8	247.9	247.9	249.6	252.0	255.3	256.9	256.1	257.7	260.2	258.6
45°	213.6	215.2	216.0	218.5	219.3	222.6	223.4	221.7	222.6	222.6	217.6
47.5°	193.9	193.9	193.9	195.6	196.4	198.8	198.8	196.4	195.6	194.7	188.2
50°	177.6	177.6	178.4	180.0	180.8	181.6	181.6	178.4	177.6	174.3	165.3
52.5°	163.6	164.5	164.5	166.1	166.9	167.7	166.9	163.6	161.2	157.9	147.3
55°	150.6	151.4	152.2	153.8	153.8	153.8	153.0	149.7	147.3	143.2	132.6
57.5°	137.5	138.3	138.3	139.9	140.7	140.7	139.9	136.6	134.2	130.9	119.5
60°	123.6	123.6	124.4	126.0	126.0	126.8	126.0	123.6	121.1	117.0	107.2
62.5°	108.0	108.8	109.6	111.3	112.1	112.1	112.1	109.6	108.0	104.7	94.9
65°	93.3	93.3	94.1	95.7	95.7	98.2	96.6	94.9	93.3	90.0	81.8
67.5°	76.1	76.9	76.9	78.5	79.4	80.2	80.2	78.5	77.7	75.3	67.9
70°	60.5	60.5	61.4	62.2	63.0	63.8	63.8	63.0	62.2	59.7	54.0
72.5°	44.2	45.0	45.0	45.8	47.5	48.3	48.3	48.3	46.6	45.0	40.9
75°	30.3	31.1	31.1	31.9	32.7	33.5	33.5	33.5	32.7	31.9	28.6
77.5°	18.8	18.8	19.6	19.6	20.5	21.3	22.1	22.1	21.3	20.5	18.8
80°	10.6	10.6	11.5	11.5	11.5	12.3	13.1	13.1	13.1	12.3	10.6
82.5°	5.7	5.7	5.7	5.7	5.7	6.5	6.5	6.5	6.5	6.5	5.7
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	717.6	723.3	727.4	720.9	726.6	732.3	738.9	726.6	738.0	731.5	733.9
5°	713.5	720.0	725.8	721.7	729.0	736.4	745.4	734.8	747.9	742.9	747.0
7.5°	707.8	716.8	724.9	723.3	733.1	742.9	754.4	745.4	759.3	756.9	761.8
10°	702.9	715.1	725.8	725.8	738.9	750.3	762.6	756.0	772.4	770.0	776.5
12.5°	699.6	715.1	729.0	731.5	747.0	760.1	774.9	768.3	786.3	783.9	791.2
15°	696.3	714.3	730.7	735.6	752.8	768.3	783.9	779.0	797.8	795.3	802.7
17.5°	685.7	706.9	724.9	731.5	750.3	766.7	783.0	779.0	797.8	795.3	802.7
20°	667.7	688.9	708.6	715.9	734.8	752.0	767.5	764.2	783.0	780.6	787.1
22.5°	644.8	665.2	684.0	691.4	709.4	724.9	740.5	737.2	755.2	751.1	758.5
25°	612.9	634.1	652.1	657.9	674.2	689.8	703.7	700.4	717.6	712.7	720.0
27.5°	580.1	595.7	610.4	615.3	630.0	643.1	656.2	652.9	669.3	663.6	670.9
30°	535.9	548.2	561.3	563.8	577.7	588.3	599.8	597.3	611.2	606.3	612.9
32.5°	484.4	495.0	504.0	504.8	516.3	525.3	535.1	533.5	545.8	541.7	546.6
35°	427.9	434.5	440.2	439.4	448.4	454.9	463.9	462.3	473.8	469.7	474.6
37.5°	368.2	371.5	373.1	369.8	376.4	381.3	387.8	387.0	396.8	393.6	398.5
40°	310.1	310.1	307.7	301.9	306.0	308.5	313.4	313.4	320.7	317.5	321.6
42.5°	256.9	253.7	247.9	239.7	240.6	243.8	243.8	243.8	249.6	246.3	253.7
45°	213.6	206.2	197.2	186.6	183.3	184.9	183.3	183.3	187.4	184.9	190.6
47.5°	180.0	171.0	155.5	142.4	136.6	135.8	133.4	133.4	135.8	135.8	138.3
50°	154.6	141.6	122.7	107.2	99.0	96.6	93.3	91.6	94.1	93.3	94.9
52.5°	134.2	117.8	95.7	77.7	69.5	63.8	61.4	58.1	58.9	58.9	59.7
55°	117.0	98.2	74.5	55.6	46.6	40.1	36.8	33.5	33.5	32.7	33.5
57.5°	103.9	84.3	60.5	41.7	31.9	25.4	22.1	18.8	18.0	18.0	18.0
60°	92.5	73.6	49.9	32.7	22.9	16.4	13.1	10.6	9.8	9.0	9.0
62.5°	81.0	63.8	42.5	27.0	17.2	12.3	9.0	6.5	5.7	4.9	4.9
65°	69.5	54.8	36.8	22.9	14.7	9.8	6.5	4.9	4.1	3.3	3.3
67.5°	57.3	45.0	31.1	18.8	12.3	8.2	5.7	4.1	3.3	2.5	2.5
70°	45.8	36.0	24.5	15.5	9.8	6.5	4.1	3.3	2.5	2.5	2.5
72.5°	34.4	27.0	18.8	11.5	7.4	4.9	3.3	2.5	1.6	1.6	1.6
75°	24.5	19.6	13.1	8.2	4.9	3.3	2.5	1.6	1.6	1.6	1.6
77.5°	15.5	12.3	8.2	4.9	3.3	1.6	1.6	0.8	0.8	0.8	0.8
80°	9.0	7.4	4.9	3.3	1.6	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	4.9	3.3	2.5	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0
85°	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	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



TEST NUMBER: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	740.5	738.9	744.6	747.0	745.4	742.1	752.8	755.2	747.9	751.1	751.1
5°	755.2	755.2	762.6	765.9	765.9	762.6	774.9	779.0	771.6	774.9	775.7
7.5°	771.6	771.6	780.6	784.7	785.5	783.0	795.3	798.6	793.7	797.0	797.8
10°	786.3	786.3	797.0	801.0	801.9	799.4	811.7	815.8	810.0	813.3	814.1
12.5°	801.9	802.7	813.3	817.4	817.4	815.0	827.2	831.3	824.8	828.9	828.0
15°	813.3	814.1	824.8	828.9	829.7	826.4	837.9	842.8	836.2	838.7	838.7
17.5°	812.5	813.3	823.1	827.2	827.2	824.8	834.6	840.3	833.8	836.2	835.4
20°	796.1	797.0	807.6	810.9	810.9	807.6	816.6	822.3	815.8	817.4	816.6
22.5°	766.7	767.5	777.3	780.6	781.4	777.3	786.3	792.9	785.5	786.3	785.5
25°	728.2	728.2	738.9	738.9	742.9	738.0	744.6	753.6	746.2	746.2	743.8
27.5°	678.3	678.3	688.9	688.9	693.9	688.9	699.6	703.7	697.1	696.3	696.3
30°	620.2	620.2	630.0	630.0	634.1	630.0	640.7	644.8	638.2	637.4	638.2
32.5°	553.9	553.9	563.8	562.9	567.8	564.6	574.4	577.7	572.8	570.3	571.9
35°	481.1	485.2	490.9	490.1	495.0	488.5	500.8	503.2	499.1	499.9	497.5
37.5°	404.2	408.3	412.4	412.4	416.5	414.8	422.2	424.7	421.4	422.2	419.8
40°	327.3	331.4	334.7	334.7	338.7	333.8	343.7	346.1	342.8	339.6	341.2
42.5°	254.5	258.6	261.8	261.0	265.1	264.3	270.0	271.7	269.2	268.4	266.7
45°	191.5	192.3	198.0	200.5	200.5	200.5	204.6	205.4	202.9	202.9	202.1
47.5°	138.3	139.9	144.0	145.6	146.5	145.6	147.3	150.6	148.1	148.1	148.9
50°	95.7	96.6	99.8	101.5	101.5	101.5	102.3	104.7	103.1	103.1	101.5
52.5°	61.4	61.4	63.8	64.6	64.6	64.6	65.5	67.1	65.5	66.3	67.1
55°	34.4	34.4	36.0	36.8	36.8	36.8	37.6	38.5	37.6	38.5	38.5
57.5°	18.0	18.0	18.8	18.8	19.6	19.6	19.6	20.5	20.5	20.5	20.5
60°	9.0	9.0	9.0	9.8	9.8	9.8	9.8	10.6	10.6	10.6	10.6
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.7	5.7	5.7	5.7
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.5	2.5	2.5	1.6	1.6
75°	0.8	1.6	1.6	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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



TEST NUMBER: P136240

CATALOG NUMBER: LD6A10D010TE ERW6A10827 6LW111LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	733.1	733.1	733.1	733.1
2.5°	744.6	745.4	759.3	758.5
5°	769.1	770.0	783.9	783.9
7.5°	791.2	792.0	806.8	807.6
10°	807.6	809.2	823.1	824.8
12.5°	823.1	823.1	837.0	840.3
15°	833.0	833.0	846.0	850.1
17.5°	829.7	829.7	842.8	847.7
20°	811.7	810.9	823.1	829.7
22.5°	780.6	781.4	791.2	798.6
25°	741.3	739.7	750.3	756.9
27.5°	692.2	693.0	699.6	706.9
30°	633.3	634.9	639.9	647.2
32.5°	567.0	569.5	572.8	580.1
35°	494.2	496.7	498.3	504.8
37.5°	415.7	418.9	419.8	426.3
40°	337.9	341.2	341.2	346.9
42.5°	265.1	267.6	266.7	271.7
45°	200.5	202.1	201.3	205.4
47.5°	146.5	148.1	146.5	149.7
50°	101.5	103.1	101.5	103.9
52.5°	65.5	66.3	64.6	67.1
55°	37.6	38.5	37.6	39.3
57.5°	21.3	20.5	19.6	21.3
60°	10.6	10.6	10.6	10.6
62.5°	5.7	5.7	5.7	5.7
65°	3.3	3.3	3.3	4.1
67.5°	3.3	3.3	3.3	3.3
70°	2.5	2.5	2.5	2.5
72.5°	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.8
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)