

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: P252153

Luminaire Tested: **LD6B15D010 EU6B10209730 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209730 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1393.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

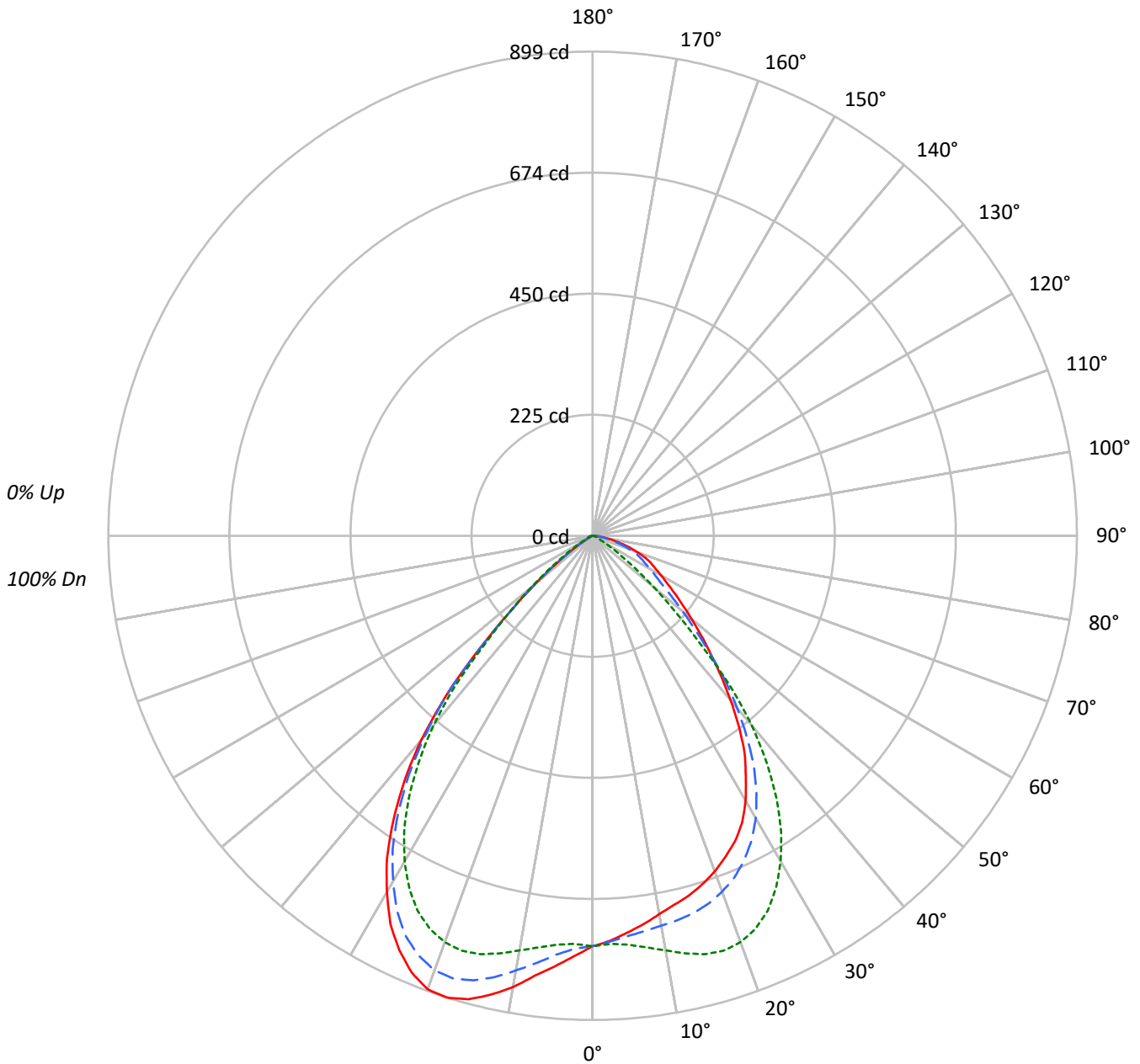
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49720	49720	49720
5°	48430	49910	52536
10°	47254	51792	56376
15°	46699	54324	60180
20°	46031	55743	62214
25°	45048	55328	61101
30°	42812	52583	57517
35°	39169	47404	51355
40°	33879	39151	42131
45°	28565	25677	27559
50°	24258	14859	13976
55°	21054	7132	5391
60°	19011	3327	1331
65°	18448	1914	448
70°	16538	1526	420
75°	13587	1109	176
80°	10144	564	0
85°	8758	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	5.3
10°-20°	224.3	16.1
20°-30°	342.8	24.6
30°-40°	358.5	25.7
40°-50°	232.6	16.7
50°-60°	92.3	6.6
60°-70°	43.8	3.1
70°-80°	20.8	1.5
80°-90°	4.2	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°	640.7	46.0
0°-40°	999.2	71.7
0°-60°	1324.1	95.1
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	762	762	762	762	762	
5°	740	746	762	781	802	70
15°	691	725	804	855	891	195
25°	626	665	769	820	849	287
35°	492	522	595	630	645	304
45°	310	307	278	295	299	241
55°	185	157	63	49	47	168
65°	120	99	12	3	3	117
75°	54	44	4	2	1	58
85°	12	7	0	0	0	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	752.6	754.1	746.1	743.9	749.7	751.9	752.6	750.4	751.2	754.1	754.1
5°	739.5	741.0	733.7	731.5	737.3	738.8	741.0	740.2	742.4	746.8	746.1
7.5°	727.1	729.3	721.3	718.4	725.7	729.3	730.8	730.8	733.7	739.5	740.2
10°	713.3	716.2	708.9	707.4	715.5	719.1	719.8	721.3	725.7	733.7	735.1
12.5°	701.6	704.5	699.4	697.2	706.0	709.6	711.1	714.0	719.1	729.3	730.8
15°	691.4	693.6	687.8	686.3	695.1	699.4	700.2	704.5	711.1	722.7	724.9
17.5°	678.3	679.8	675.4	673.9	682.7	687.0	687.8	692.9	700.9	712.5	716.2
20°	663.0	664.5	660.1	658.6	667.4	672.5	673.2	677.6	687.0	699.4	703.1
22.5°	644.8	647.7	642.6	641.1	649.9	654.3	656.4	660.1	669.6	681.9	687.0
25°	625.8	625.8	622.2	621.5	629.5	634.6	633.9	639.0	648.4	660.8	665.2
27.5°	601.1	600.3	596.7	596.0	604.7	609.1	607.6	612.7	621.5	633.9	638.2
30°	568.3	569.7	564.6	563.2	570.5	577.8	577.0	582.1	590.9	602.5	605.4
32.5°	528.9	530.4	529.7	527.5	534.0	537.7	539.9	543.5	550.8	563.2	566.1
35°	491.8	489.6	486.7	486.7	493.2	499.1	496.9	501.3	508.5	520.9	521.7
37.5°	445.9	445.2	443.7	442.2	449.5	451.0	451.7	454.6	461.2	471.4	469.9
40°	397.8	398.5	397.8	394.9	399.3	405.1	404.4	405.8	411.6	418.9	416.7
42.5°	352.6	352.6	352.6	349.7	354.8	357.7	359.2	358.5	359.9	366.5	363.6
45°	309.6	310.4	309.6	308.9	309.6	311.1	309.6	308.9	308.9	311.1	306.7
47.5°	272.5	272.5	270.3	268.1	270.3	271.0	268.8	266.7	265.9	265.2	257.9
50°	239.0	238.2	237.5	233.9	236.1	236.8	233.9	232.4	229.5	225.9	217.1
52.5°	209.8	209.1	208.4	204.7	206.2	206.9	204.0	201.1	197.4	194.5	183.6
55°	185.1	184.3	184.3	182.1	180.7	182.1	179.2	177.0	171.9	168.3	157.4
57.5°	163.9	163.9	162.5	160.3	161.0	161.0	158.1	155.2	150.8	146.4	137.7
60°	145.7	145.7	145.7	143.5	143.5	143.5	142.1	139.2	135.5	131.1	122.4
62.5°	131.1	131.1	130.4	128.2	129.0	129.0	127.5	124.6	120.9	118.0	109.3
65°	119.5	119.5	119.5	117.3	117.3	118.0	116.6	113.7	110.7	107.1	99.1
67.5°	104.9	104.2	104.2	102.7	103.5	104.2	102.7	100.5	96.9	94.7	87.4
70°	86.7	87.4	88.2	86.0	86.7	86.7	86.0	83.8	81.6	79.4	72.9
72.5°	70.7	70.7	69.9	69.2	69.2	69.9	68.5	66.3	64.8	63.4	58.3
75°	53.9	53.2	53.9	52.5	52.5	52.5	51.0	50.3	49.5	47.4	43.7
77.5°	39.3	38.6	38.6	37.2	37.9	37.9	37.2	35.7	34.2	33.5	30.6
80°	27.0	27.0	27.0	26.2	26.2	25.5	25.5	24.8	23.3	22.6	21.1
82.5°	18.2	18.2	18.2	17.5	17.5	17.5	16.8	16.0	15.3	14.6	13.1
85°	11.7	11.7	11.7	10.9	10.9	10.9	10.2	10.2	9.5	8.7	7.3
87.5°	6.6	6.6	6.6	5.8	5.8	5.8	5.8	5.8	5.1	4.4	3.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	759.2	749.0	755.5	755.5	753.3	759.2	762.8	765.7	765.0	758.4	757.7
5°	753.3	744.6	751.9	752.6	750.4	758.4	763.5	767.2	767.9	762.1	762.8
7.5°	749.0	741.7	751.2	754.1	753.3	760.6	766.5	772.3	775.2	770.8	771.6
10°	746.8	741.0	751.2	755.5	756.3	764.3	773.0	781.0	784.7	781.8	783.9
12.5°	743.9	740.2	751.9	758.4	761.4	769.4	780.3	789.8	795.6	794.1	798.5
15°	741.0	738.0	751.9	761.4	765.0	772.3	784.7	798.5	805.1	804.3	810.2
17.5°	733.7	732.9	747.5	757.7	762.8	771.6	783.2	800.0	806.5	808.0	815.3
20°	722.0	722.0	738.0	749.0	754.8	762.8	777.4	793.4	801.4	802.9	810.9
22.5°	706.0	707.4	722.7	733.7	742.4	748.2	763.5	780.3	787.6	789.8	798.5
25°	684.9	686.3	700.9	711.8	721.3	727.8	742.4	757.7	766.5	768.6	775.2
27.5°	657.2	660.1	673.9	684.9	692.9	697.2	712.5	728.6	735.1	737.3	743.9
30°	625.1	625.8	639.7	649.2	657.2	660.8	673.9	690.7	695.8	698.0	707.4
32.5°	585.8	585.0	598.2	606.9	613.5	617.8	631.7	642.6	647.7	651.3	656.4
35°	538.4	537.7	547.2	557.4	562.5	563.9	577.8	589.4	592.3	595.2	601.8
37.5°	485.2	485.2	493.2	498.3	504.2	506.4	512.9	526.0	531.1	530.4	535.5
40°	429.1	426.2	432.0	437.1	438.6	439.3	445.9	456.1	459.7	459.7	463.4
42.5°	370.1	365.7	366.5	369.4	370.8	365.7	370.1	376.7	374.5	377.4	378.1
45°	307.5	300.9	298.0	291.4	292.9	287.8	284.9	286.3	285.6	278.3	279.8
47.5°	256.5	244.8	239.7	230.2	228.0	222.2	218.6	212.0	206.2	206.2	202.5
50°	213.5	201.8	191.6	180.7	177.0	171.9	163.9	155.2	150.8	146.4	142.8
52.5°	179.2	166.8	154.5	142.8	137.7	131.1	120.2	111.5	103.5	99.1	94.7
55°	151.5	137.7	124.6	112.2	105.6	99.1	88.2	78.0	68.5	62.7	59.0
57.5°	130.4	117.3	103.5	90.3	84.5	77.2	65.6	54.6	45.9	39.3	35.7
60°	115.1	102.0	89.6	75.8	69.9	62.7	50.3	40.1	31.3	25.5	21.1
62.5°	102.0	90.3	77.2	64.8	59.0	51.7	40.1	29.9	21.9	16.0	12.4
65°	92.5	80.9	69.9	57.6	52.5	45.2	34.2	24.8	17.5	12.4	8.7
67.5°	81.6	71.4	60.5	50.3	45.2	39.3	29.1	21.1	14.6	10.2	7.3
70°	68.5	60.5	51.0	41.5	37.9	32.8	24.0	17.5	11.7	8.0	5.8
72.5°	54.6	48.1	40.8	33.5	30.6	25.5	19.7	13.8	8.7	5.8	4.4
75°	41.5	36.4	30.6	25.5	22.6	19.7	14.6	10.2	6.6	4.4	2.9
77.5°	28.4	26.2	21.9	17.5	16.0	13.8	9.5	6.6	4.4	2.9	1.5
80°	19.7	17.5	14.6	11.7	10.2	8.7	5.8	4.4	2.2	1.5	0.7
82.5°	12.4	10.2	8.7	7.3	6.6	5.1	3.6	2.2	1.5	0.7	0.7
85°	6.6	5.8	5.1	3.6	3.6	2.9	2.2	1.5	0.7	0.0	0.0
87.5°	3.6	2.9	2.2	1.5	1.5	0.7	0.7	0.7	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	766.5	766.5	765.7	774.5	764.3	774.5	769.4	774.5	767.2	766.5	767.2
5°	772.3	774.5	775.2	783.2	773.7	786.1	781.8	786.1	781.0	782.5	784.7
7.5°	783.9	787.6	786.9	797.1	787.6	801.4	798.5	805.1	800.0	801.4	804.3
10°	797.1	801.4	802.2	812.4	803.6	820.4	816.7	824.0	819.6	821.8	825.5
12.5°	812.4	817.5	818.2	829.8	820.4	837.9	835.7	843.0	839.3	841.5	845.9
15°	824.0	831.3	832.8	844.4	834.2	852.4	851.0	860.4	854.6	858.3	861.9
17.5°	829.8	836.4	839.3	850.2	841.5	859.7	858.3	866.3	861.9	865.5	869.9
20°	826.2	834.2	836.4	847.3	838.6	856.8	854.6	862.6	858.3	861.2	865.5
22.5°	813.1	821.1	824.0	834.2	826.2	843.0	842.2	849.5	843.7	847.3	851.0
25°	789.8	798.5	800.0	809.4	800.7	818.2	816.7	824.7	820.4	822.6	827.7
27.5°	756.3	766.5	768.6	776.7	770.1	784.7	784.7	791.2	786.1	786.1	791.2
30°	716.2	726.4	727.8	734.4	728.6	741.7	742.4	749.0	741.0	745.3	746.1
32.5°	667.4	673.9	678.3	684.1	675.4	692.1	690.0	695.1	690.7	690.7	694.3
35°	608.4	616.4	618.6	625.8	618.6	631.7	631.7	634.6	630.2	630.2	636.0
37.5°	544.2	550.1	550.8	558.1	552.3	563.2	562.5	564.6	560.3	563.2	563.2
40°	469.2	473.6	475.0	478.7	477.9	486.0	485.2	486.7	484.5	485.2	486.7
42.5°	381.8	387.6	390.5	393.4	389.1	400.0	397.8	400.0	399.3	400.0	402.2
45°	281.2	285.6	287.8	288.5	287.1	293.6	298.7	294.3	295.1	293.6	296.5
47.5°	203.3	204.0	202.5	206.9	203.3	206.2	207.6	208.4	204.0	203.3	206.2
50°	139.2	142.8	137.7	139.9	139.2	142.1	140.6	141.3	137.0	139.2	137.7
52.5°	92.5	91.8	90.3	91.1	89.6	89.6	89.6	91.1	88.2	86.7	85.2
55°	56.1	54.6	51.7	51.0	51.0	51.7	50.3	48.8	48.8	48.1	48.1
57.5°	32.8	30.6	29.1	28.4	27.0	26.2	25.5	25.5	24.0	24.0	24.0
60°	18.2	16.0	14.6	13.1	13.1	12.4	11.7	10.9	10.9	10.9	10.2
62.5°	9.5	8.0	6.6	5.8	5.8	5.1	4.4	4.4	4.4	4.4	3.6
65°	6.6	5.1	4.4	3.6	3.6	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	5.1	4.4	3.6	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.2
70°	4.4	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
80°	0.7	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
2.5°	773.7	773.0	773.7	775.2	772.3	781.0	776.7	781.0
5°	790.5	791.2	792.0	794.1	790.5	801.4	795.6	802.2
7.5°	812.4	813.1	813.8	816.0	813.8	824.7	818.2	824.0
10°	834.9	836.4	836.4	840.0	837.9	848.1	843.7	851.0
12.5°	856.1	857.5	859.0	861.2	859.7	870.6	867.0	872.8
15°	872.8	875.7	876.5	879.4	877.9	889.6	885.2	891.0
17.5°	880.8	883.8	883.8	887.4	885.9	898.3	892.5	899.1
20°	876.5	878.7	879.4	883.0	881.6	894.0	888.1	896.1
22.5°	862.6	863.4	864.1	867.7	867.0	877.9	872.8	877.9
25°	837.1	839.3	838.6	841.5	841.5	850.2	844.4	848.8
27.5°	800.7	802.9	802.9	806.5	803.6	812.4	806.5	813.1
30°	756.3	758.4	757.0	759.9	757.0	765.7	761.4	763.5
32.5°	703.1	703.1	703.8	704.5	703.1	711.1	706.7	711.1
35°	639.7	641.1	641.9	642.6	641.1	647.0	641.9	644.8
37.5°	568.3	571.9	571.2	571.9	569.7	577.0	572.7	574.1
40°	491.8	491.8	491.1	492.5	490.3	496.2	493.2	494.7
42.5°	402.9	405.1	402.2	405.8	400.0	408.0	405.1	402.9
45°	302.4	299.4	298.7	299.4	297.3	298.0	300.2	298.7
47.5°	206.2	206.2	204.7	202.5	205.5	206.2	203.3	203.3
50°	138.4	138.4	137.0	136.2	137.7	137.0	135.5	137.7
52.5°	88.2	85.2	85.2	86.7	85.2	83.8	86.0	84.5
55°	48.1	46.6	46.6	48.1	46.6	46.6	45.9	47.4
57.5°	23.3	24.0	23.3	23.3	23.3	23.3	22.6	23.3
60°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
62.5°	4.4	4.4	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	2.2	2.2	2.2	2.2	2.2	2.9	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
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)