

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: P252131

Luminaire Tested: **LD6B10D010 EU6B10208040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252131
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: LD6B10D010 EU6B10208040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1402.0 lumens
Efficiency: N/A
Efficacy: 139.5 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

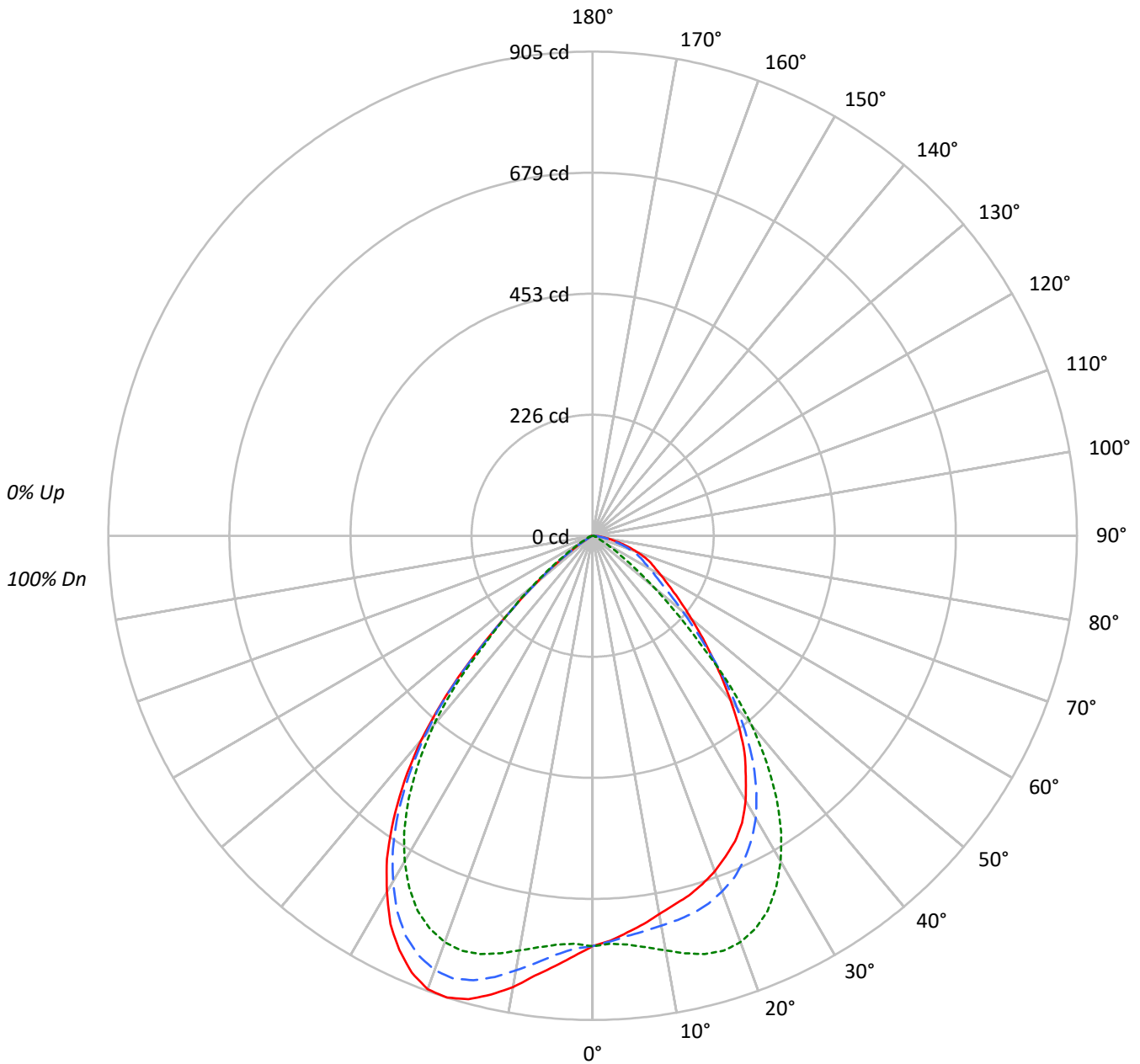
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50040	50040	50040
5°	48744	50231	52870
10°	47559	52123	56741
15°	47003	54675	60572
20°	46329	56104	62617
25°	45343	55688	61497
30°	43091	52922	57894
35°	39424	47715	51681
40°	34100	39406	42404
45°	28750	25843	27735
50°	24410	14961	14067
55°	21190	7177	5426
60°	19142	3353	1344
65°	18571	1930	448
70°	16653	1545	420
75°	13687	1109	176
80°	10182	564	0
85°	8758	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	5.3
10°-20°	225.8	16.1
20°-30°	345.0	24.6
30°-40°	360.8	25.7
40°-50°	234.1	16.7
50°-60°	92.9	6.6
60°-70°	44.1	3.1
70°-80°	21.0	1.5
80°-90°	4.3	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°	644.8	46.0
0°-40°	1005.7	71.7
0°-60°	1332.7	95.1
0°-90°	1402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	767	767	767	767	767	
5°	744	751	767	786	807	70
15°	696	730	810	860	897	196
25°	630	670	774	826	854	288
35°	495	525	599	634	649	306
45°	312	309	280	297	301	242
55°	186	158	63	49	48	169
65°	120	100	12	3	3	117
75°	54	44	4	2	1	59
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°	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
2.5°	757.5	758.9	750.9	748.7	754.5	756.7	757.5	755.3	756.0	758.9	758.9
5°	744.3	745.7	738.4	736.2	742.1	743.5	745.7	745.0	747.2	751.6	750.9
7.5°	731.8	734.0	725.9	723.0	730.3	734.0	735.5	735.5	738.4	744.3	745.0
10°	717.9	720.8	713.5	712.0	720.1	723.7	724.5	725.9	730.3	738.4	739.9
12.5°	706.1	709.1	703.9	701.7	710.5	714.2	715.7	718.6	723.7	734.0	735.5
15°	695.9	698.1	692.2	690.7	699.5	703.9	704.7	709.1	715.7	727.4	729.6
17.5°	682.7	684.1	679.7	678.3	687.1	691.5	692.2	697.3	705.4	717.1	720.8
20°	667.3	668.7	664.3	662.9	671.7	676.8	677.5	681.9	691.5	703.9	707.6
22.5°	648.9	651.9	646.7	645.3	654.1	658.5	660.7	664.3	673.9	686.3	691.5
25°	629.9	629.9	626.2	625.5	633.5	638.7	637.9	643.1	652.6	665.1	669.5
27.5°	605.0	604.2	600.6	599.8	608.6	613.0	611.6	616.7	625.5	637.9	642.3
30°	572.0	573.4	568.3	566.8	574.2	581.5	580.8	585.9	594.7	606.4	609.4
32.5°	532.4	533.8	533.1	530.9	537.5	541.2	543.4	547.0	554.4	566.8	569.8
35°	495.0	492.8	489.8	489.8	496.4	502.3	500.1	504.5	511.8	524.3	525.0
37.5°	448.8	448.0	446.6	445.1	452.4	453.9	454.6	457.6	464.2	474.4	473.0
40°	400.4	401.1	400.4	397.4	401.8	407.7	407.0	408.4	414.3	421.6	419.4
42.5°	354.9	354.9	354.9	352.0	357.1	360.0	361.5	360.8	362.2	368.8	365.9
45°	311.6	312.4	311.6	310.9	311.6	313.1	311.6	310.9	310.9	313.1	308.7
47.5°	274.2	274.2	272.0	269.8	272.0	272.8	270.6	268.4	267.6	266.9	259.6
50°	240.5	239.8	239.0	235.4	237.6	238.3	235.4	233.9	231.0	227.3	218.5
52.5°	211.2	210.4	209.7	206.1	207.5	208.2	205.3	202.4	198.7	195.8	184.8
55°	186.3	185.5	185.5	183.3	181.9	183.3	180.4	178.2	173.1	169.4	158.4
57.5°	165.0	165.0	163.5	161.3	162.1	162.1	159.1	156.2	151.8	147.4	138.6
60°	146.7	146.7	146.7	144.5	144.5	144.5	143.0	140.1	136.4	132.0	123.2
62.5°	132.0	132.0	131.3	129.1	129.8	129.8	128.3	125.4	121.7	118.8	110.0
65°	120.3	120.3	120.3	118.1	118.1	118.8	117.3	114.4	111.5	107.8	99.7
67.5°	105.6	104.9	104.9	103.4	104.1	104.9	103.4	101.2	97.5	95.3	88.0
70°	87.3	88.0	88.7	86.5	87.3	87.3	86.5	84.3	82.1	79.9	73.3
72.5°	71.1	71.1	70.4	69.7	69.7	70.4	68.9	66.7	65.3	63.8	58.7
75°	54.3	53.5	54.3	52.8	52.8	52.8	51.3	50.6	49.9	47.7	44.0
77.5°	39.6	38.9	38.9	37.4	38.1	38.1	37.4	35.9	34.5	33.7	30.8
80°	27.1	27.1	27.1	26.4	26.4	25.7	25.7	24.9	23.5	22.7	21.3
82.5°	18.3	18.3	18.3	17.6	17.6	17.6	16.9	16.1	15.4	14.7	13.2
85°	11.7	11.7	11.7	11.0	11.0	11.0	10.3	10.3	9.5	8.8	7.3
87.5°	6.6	6.6	6.6	5.9	5.9	5.9	5.9	5.9	5.1	4.4	3.7
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°	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
2.5°	764.1	753.8	760.4	760.4	758.2	764.1	767.7	770.7	769.9	763.3	762.6
5°	758.2	749.4	756.7	757.5	755.3	763.3	768.5	772.1	772.9	767.0	767.7
7.5°	753.8	746.5	756.0	758.9	758.2	765.5	771.4	777.3	780.2	775.8	776.5
10°	751.6	745.7	756.0	760.4	761.1	769.2	778.0	786.1	789.7	786.8	789.0
12.5°	748.7	745.0	756.7	763.3	766.3	774.3	785.3	794.9	800.7	799.3	803.7
15°	745.7	742.8	756.7	766.3	769.9	777.3	789.7	803.7	810.3	809.5	815.4
17.5°	738.4	737.7	752.3	762.6	767.7	776.5	788.3	805.1	811.7	813.2	820.5
20°	726.7	726.7	742.8	753.8	759.7	767.7	782.4	798.5	806.6	808.1	816.1
22.5°	710.5	712.0	727.4	738.4	747.2	753.1	768.5	785.3	792.7	794.9	803.7
25°	689.3	690.7	705.4	716.4	725.9	732.5	747.2	762.6	771.4	773.6	780.2
27.5°	661.4	664.3	678.3	689.3	697.3	701.7	717.1	733.3	739.9	742.1	748.7
30°	629.1	629.9	643.8	653.3	661.4	665.1	678.3	695.1	700.3	702.5	712.0
32.5°	589.6	588.8	602.0	610.8	617.4	621.8	635.7	646.7	651.9	655.5	660.7
35°	541.9	541.2	550.7	561.0	566.1	567.6	581.5	593.2	596.2	599.1	605.7
37.5°	488.4	488.4	496.4	501.6	507.4	509.6	516.2	529.4	534.6	533.8	539.0
40°	431.9	429.0	434.8	440.0	441.4	442.2	448.8	459.0	462.7	462.7	466.4
42.5°	372.5	368.1	368.8	371.8	373.2	368.1	372.5	379.1	376.9	379.8	380.6
45°	309.4	302.8	299.9	293.3	294.8	289.6	286.7	288.2	287.4	280.1	281.6
47.5°	258.1	246.4	241.2	231.7	229.5	223.6	220.0	213.4	207.5	207.5	203.9
50°	214.8	203.1	192.9	181.9	178.2	173.1	165.0	156.2	151.8	147.4	143.7
52.5°	180.4	167.9	155.5	143.7	138.6	132.0	121.0	112.2	104.1	99.7	95.3
55°	152.5	138.6	125.4	112.9	106.3	99.7	88.7	78.5	68.9	63.1	59.4
57.5°	131.3	118.1	104.1	90.9	85.1	77.7	66.0	55.0	46.2	39.6	35.9
60°	115.9	102.7	90.2	76.3	70.4	63.1	50.6	40.3	31.5	25.7	21.3
62.5°	102.7	90.9	77.7	65.3	59.4	52.1	40.3	30.1	22.0	16.1	12.5
65°	93.1	81.4	70.4	57.9	52.8	45.5	34.5	24.9	17.6	12.5	8.8
67.5°	82.1	71.9	60.9	50.6	45.5	39.6	29.3	21.3	14.7	10.3	7.3
70°	68.9	60.9	51.3	41.8	38.1	33.0	24.2	17.6	11.7	8.1	5.9
72.5°	55.0	48.4	41.1	33.7	30.8	25.7	19.8	13.9	8.8	5.9	4.4
75°	41.8	36.7	30.8	25.7	22.7	19.8	14.7	10.3	6.6	4.4	2.9
77.5°	28.6	26.4	22.0	17.6	16.1	13.9	9.5	6.6	4.4	2.9	1.5
80°	19.8	17.6	14.7	11.7	10.3	8.8	5.9	4.4	2.2	1.5	0.7
82.5°	12.5	10.3	8.8	7.3	6.6	5.1	3.7	2.2	1.5	0.7	0.7
85°	6.6	5.9	5.1	3.7	3.7	2.9	2.2	1.5	0.7	0.0	0.0
87.5°	3.7	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°	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
2.5°	771.4	771.4	770.7	779.5	769.2	779.5	774.3	779.5	772.1	771.4	772.1
5°	777.3	779.5	780.2	788.3	778.7	791.2	786.8	791.2	786.1	787.5	789.7
7.5°	789.0	792.7	791.9	802.2	792.7	806.6	803.7	810.3	805.1	806.6	809.5
10°	802.2	806.6	807.3	817.6	808.8	825.7	822.0	829.3	824.9	827.1	830.8
12.5°	817.6	822.7	823.5	835.2	825.7	843.3	841.1	848.4	844.7	846.9	851.3
15°	829.3	836.7	838.1	849.9	839.6	857.9	856.5	866.0	860.1	863.8	867.5
17.5°	835.2	841.8	844.7	855.7	846.9	865.3	863.8	871.9	867.5	871.1	875.5
20°	831.5	839.6	841.8	852.8	844.0	862.3	860.1	868.2	863.8	866.7	871.1
22.5°	818.3	826.4	829.3	839.6	831.5	848.4	847.7	855.0	849.1	852.8	856.5
25°	794.9	803.7	805.1	814.7	805.9	823.5	822.0	830.1	825.7	827.9	833.0
27.5°	761.1	771.4	773.6	781.7	775.1	789.7	789.7	796.3	791.2	791.2	796.3
30°	720.8	731.1	732.5	739.1	733.3	746.5	747.2	753.8	745.7	750.1	750.9
32.5°	671.7	678.3	682.7	688.5	679.7	696.6	694.4	699.5	695.1	695.1	698.8
35°	612.3	620.3	622.5	629.9	622.5	635.7	635.7	638.7	634.3	634.3	640.1
37.5°	547.8	553.6	554.4	561.7	555.8	566.8	566.1	568.3	563.9	566.8	566.8
40°	472.2	476.6	478.1	481.8	481.0	489.1	488.4	489.8	487.6	488.4	489.8
42.5°	384.2	390.1	393.0	396.0	391.6	402.6	400.4	402.6	401.8	402.6	404.8
45°	283.0	287.4	289.6	290.4	288.9	295.5	300.6	296.2	297.0	295.5	298.4
47.5°	204.6	205.3	203.9	208.2	204.6	207.5	209.0	209.7	205.3	204.6	207.5
50°	140.1	143.7	138.6	140.8	140.1	143.0	141.5	142.3	137.9	140.1	138.6
52.5°	93.1	92.4	90.9	91.7	90.2	90.2	90.2	91.7	88.7	87.3	85.8
55°	56.5	55.0	52.1	51.3	51.3	52.1	50.6	49.1	49.1	48.4	48.4
57.5°	33.0	30.8	29.3	28.6	27.1	26.4	25.7	25.7	24.2	24.2	24.2
60°	18.3	16.1	14.7	13.2	13.2	12.5	11.7	11.0	11.0	11.0	10.3
62.5°	9.5	8.1	6.6	5.9	5.9	5.1	4.4	4.4	4.4	4.4	3.7
65°	6.6	5.1	4.4	3.7	3.7	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	5.1	4.4	3.7	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°	767.0	767.0	767.0	767.0	767.0	767.0	767.0	767.0
2.5°	778.7	778.0	778.7	780.2	777.3	786.1	781.7	786.1
5°	795.6	796.3	797.1	799.3	795.6	806.6	800.7	807.3
7.5°	817.6	818.3	819.1	821.3	819.1	830.1	823.5	829.3
10°	840.3	841.8	841.8	845.5	843.3	853.5	849.1	856.5
12.5°	861.6	863.1	864.5	866.7	865.3	876.3	872.6	878.5
15°	878.5	881.4	882.1	885.1	883.6	895.3	890.9	896.8
17.5°	886.5	889.5	889.5	893.1	891.7	904.1	898.3	904.9
20°	882.1	884.3	885.1	888.7	887.3	899.7	893.9	901.9
22.5°	868.2	868.9	869.7	873.3	872.6	883.6	878.5	883.6
25°	842.5	844.7	844.0	846.9	846.9	855.7	849.9	854.3
27.5°	805.9	808.1	808.1	811.7	808.8	817.6	811.7	818.3
30°	761.1	763.3	761.9	764.8	761.9	770.7	766.3	768.5
32.5°	707.6	707.6	708.3	709.1	707.6	715.7	711.3	715.7
35°	643.8	645.3	646.0	646.7	645.3	651.1	646.0	648.9
37.5°	572.0	575.6	574.9	575.6	573.4	580.8	576.4	577.8
40°	495.0	495.0	494.2	495.7	493.5	499.4	496.4	497.9
42.5°	405.5	407.7	404.8	408.4	402.6	410.6	407.7	405.5
45°	304.3	301.4	300.6	301.4	299.2	299.9	302.1	300.6
47.5°	207.5	207.5	206.1	203.9	206.8	207.5	204.6	204.6
50°	139.3	139.3	137.9	137.1	138.6	137.9	136.4	138.6
52.5°	88.7	85.8	85.8	87.3	85.8	84.3	86.5	85.1
55°	48.4	46.9	46.9	48.4	46.9	46.9	46.2	47.7
57.5°	23.5	24.2	23.5	23.5	23.5	23.5	22.7	23.5
60°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
62.5°	4.4	4.4	3.7	3.7	3.7	3.7	3.7	3.7
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)