

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: P252472

Luminaire Tested: **LD6B20D010 EU6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10209027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

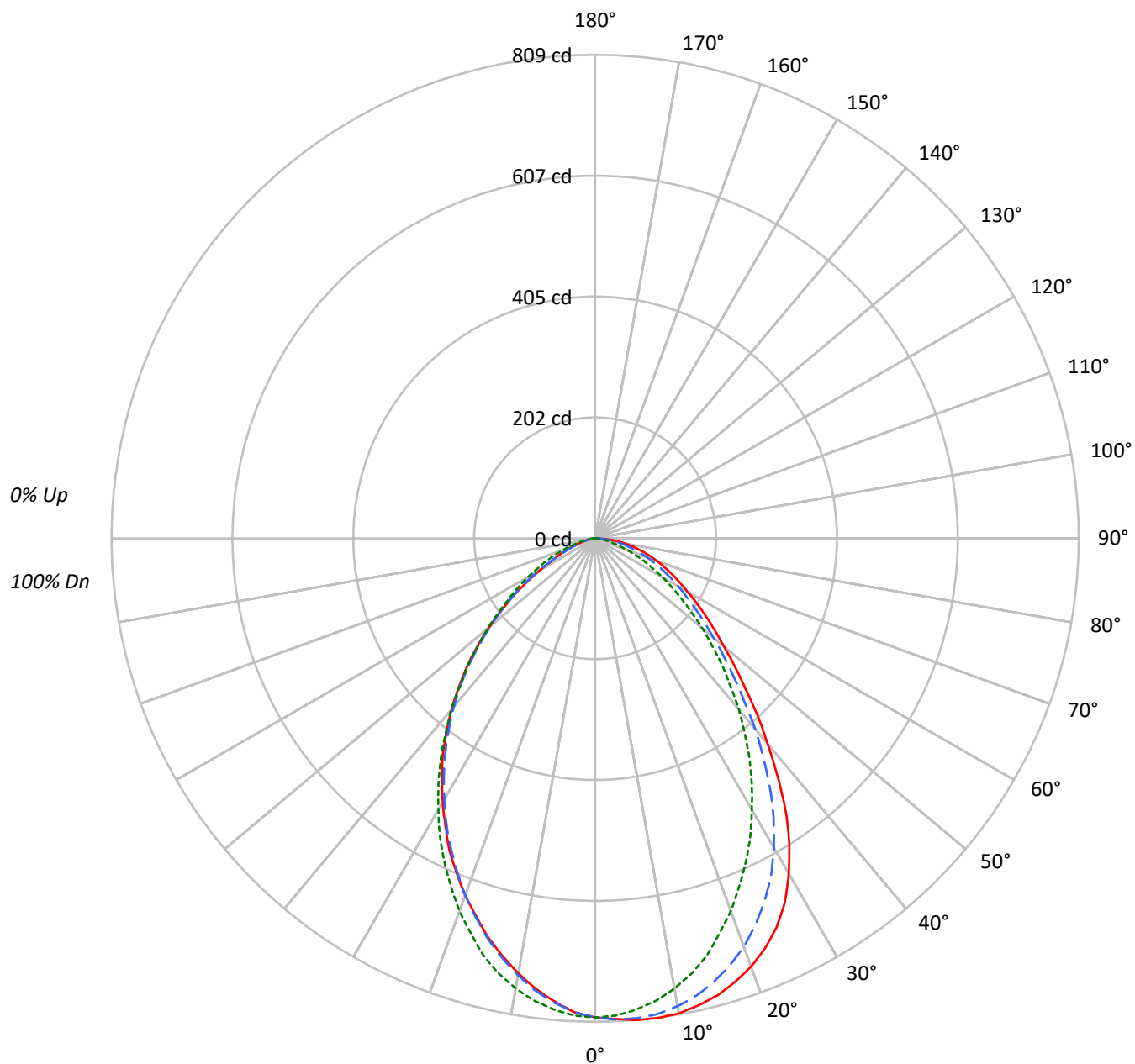
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52303	52303	52303
5°	53007	51842	50971
10°	53475	50672	48976
15°	53466	48806	46699
20°	52952	46072	44142
25°	51692	42961	41514
30°	48816	39505	38412
35°	44250	35824	35386
40°	38214	31860	31767
45°	32772	27735	27938
50°	28480	23730	23395
55°	25581	20007	18745
60°	23239	16858	13805
65°	21828	13924	10142
70°	20811	10835	7439
75°	19939	7865	5041
80°	18823	5448	3344
85°	16693	3368	1647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	5.3
10°-20°	205.4	14.5
20°-30°	285.1	20.1
30°-40°	295.3	20.8
40°-50°	242.7	17.1
50°-60°	166.8	11.7
60°-70°	95.9	6.7
70°-80°	44.1	3.1
80°-90°	10.7	0.8
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°	565.5	39.8
0°-40°	860.8	60.6
0°-60°	1270.3	89.4
0°-90°	1421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	802	802	802	802	802	
5°	809	806	792	780	778	77
15°	792	768	723	694	691	223
25°	718	670	597	571	577	329
35°	556	510	450	436	444	345
45°	355	328	301	297	303	277
55°	225	204	176	166	165	202
65°	141	124	90	64	66	141
75°	79	62	31	20	20	84
85°	22	16	4	2	2	25
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°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	805.0	811.7	807.2	806.1	808.3	808.3	808.3	805.0	807.2	803.9	806.1
5°	809.4	815.0	810.6	808.3	810.6	811.7	808.3	806.1	809.4	805.0	806.1
7.5°	809.4	815.0	810.6	809.4	810.6	810.6	809.4	805.0	807.2	802.8	802.8
10°	807.2	811.7	807.2	805.0	806.1	805.0	805.0	799.4	800.5	795.0	795.0
12.5°	800.5	806.1	800.5	798.3	798.3	798.3	795.0	790.5	791.6	785.0	783.8
15°	791.6	796.1	790.5	788.3	788.3	787.2	785.0	778.3	778.3	771.6	768.3
17.5°	778.3	782.7	778.3	774.9	773.8	771.6	769.4	762.7	760.5	752.7	749.3
20°	762.7	766.0	761.6	758.2	756.0	753.8	749.3	742.6	740.4	732.6	727.1
22.5°	742.6	747.1	740.4	737.1	734.8	731.5	727.1	720.4	717.0	707.0	700.3
25°	718.1	720.4	714.8	711.5	707.0	704.8	701.4	692.5	689.2	678.1	670.3
27.5°	687.0	689.2	682.5	680.3	674.7	672.5	668.0	660.3	655.8	644.7	636.9
30°	648.0	650.2	645.8	642.4	638.0	633.5	630.2	622.4	615.7	604.6	597.9
32.5°	604.6	607.9	603.5	599.0	591.2	592.3	586.8	579.0	573.4	563.4	555.6
35°	555.6	557.8	552.3	551.1	546.7	542.2	536.7	531.1	527.8	516.6	509.9
37.5°	501.0	506.6	501.0	496.6	494.4	491.0	487.7	479.9	477.7	471.0	462.1
40°	448.7	452.0	448.7	444.3	440.9	440.9	436.5	432.0	426.4	419.8	416.4
42.5°	401.9	399.7	398.6	396.4	391.9	390.8	389.7	384.1	380.8	374.1	368.5
45°	355.2	356.3	354.1	353.0	349.6	347.4	345.2	340.7	339.6	332.9	328.5
47.5°	316.2	315.1	312.9	312.9	310.6	308.4	306.2	302.8	301.7	296.2	291.7
50°	280.6	281.7	280.6	279.5	276.1	275.0	272.8	270.6	268.3	262.8	258.3
52.5°	251.6	250.5	249.4	249.4	246.1	244.9	242.7	240.5	238.3	232.7	229.4
55°	224.9	224.9	223.8	222.7	219.3	218.2	217.1	214.9	211.5	207.1	203.8
57.5°	200.4	200.4	199.3	198.2	196.0	196.0	193.7	191.5	189.3	184.8	180.4
60°	178.1	179.3	178.1	177.0	174.8	174.8	173.7	170.4	169.2	163.7	160.3
62.5°	159.2	159.2	159.2	158.1	157.0	154.8	154.8	151.4	149.2	145.9	141.4
65°	141.4	141.4	141.4	140.3	138.1	136.9	135.8	133.6	131.4	128.0	123.6
67.5°	124.7	124.7	124.7	123.6	121.4	120.2	119.1	118.0	114.7	111.3	106.9
70°	109.1	109.1	108.0	106.9	105.8	104.7	103.5	101.3	99.1	94.6	91.3
72.5°	93.5	93.5	93.5	91.3	90.2	90.2	88.0	86.8	84.6	80.2	76.8
75°	79.1	77.9	77.9	76.8	75.7	74.6	73.5	72.4	69.0	66.8	62.4
77.5°	64.6	64.6	63.5	62.4	62.4	61.2	60.1	57.9	56.8	53.4	50.1
80°	50.1	50.1	50.1	50.1	49.0	47.9	47.9	45.6	44.5	41.2	39.0
82.5°	37.9	36.7	36.7	36.7	35.6	34.5	34.5	33.4	32.3	30.1	27.8
85°	22.3	21.2	21.2	21.2	20.0	20.0	18.9	18.9	17.8	15.6	15.6
87.5°	6.7	6.7	7.8	7.8	6.7	6.7	6.7	6.7	6.7	5.6	5.6
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°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	803.9	807.2	802.8	801.7	806.1	803.9	802.8	800.5	801.7	799.4	796.1
5°	802.8	807.2	801.7	798.3	803.9	800.5	798.3	796.1	796.1	791.6	789.4
7.5°	799.4	801.7	796.1	792.7	796.1	792.7	790.5	787.2	786.1	780.5	777.2
10°	790.5	792.7	786.1	781.6	785.0	780.5	777.2	773.8	771.6	764.9	760.5
12.5°	778.3	779.4	771.6	766.0	768.3	764.9	759.3	754.9	752.7	746.0	740.4
15°	761.6	762.7	753.8	746.0	748.2	743.8	737.1	732.6	729.3	722.6	714.8
17.5°	741.5	740.4	730.4	722.6	723.7	718.1	711.5	704.8	700.3	692.5	687.0
20°	719.3	715.9	704.8	695.9	697.0	690.3	682.5	675.8	670.3	663.6	655.8
22.5°	691.4	687.0	677.0	665.8	666.9	661.4	650.2	644.7	639.1	630.2	623.5
25°	661.4	654.7	644.7	633.5	633.5	626.8	617.9	611.3	605.7	596.8	589.0
27.5°	625.7	622.4	609.0	600.1	599.0	592.3	584.5	576.7	570.1	562.3	554.5
30°	586.8	581.2	571.2	561.2	558.9	553.4	545.6	536.7	532.2	524.4	517.7
32.5°	545.6	540.0	528.9	518.8	517.7	513.3	506.6	497.7	493.2	487.7	483.2
35°	498.8	496.6	485.4	477.7	477.7	473.2	466.5	458.7	455.4	449.8	444.3
37.5°	454.3	450.9	440.9	434.2	434.2	428.7	422.0	418.6	415.3	410.8	407.5
40°	407.5	405.3	397.5	390.8	391.9	387.5	383.0	378.6	376.3	374.1	370.8
42.5°	364.1	361.9	356.3	350.7	350.7	347.4	342.9	339.6	337.4	334.0	332.9
45°	325.1	321.8	317.3	311.8	311.8	308.4	306.2	304.0	302.8	300.6	297.3
47.5°	287.3	285.0	280.6	275.0	275.0	275.0	270.6	267.2	267.2	265.0	263.9
50°	255.0	251.6	248.3	243.8	243.8	241.6	238.3	234.9	234.9	233.8	231.6
52.5°	224.9	222.7	218.2	213.8	213.8	211.5	208.2	207.1	206.0	202.6	201.5
55°	199.3	197.1	193.7	188.2	187.1	185.9	182.6	180.4	179.3	175.9	175.9
57.5°	175.9	173.7	168.1	164.8	163.7	161.4	158.1	155.9	154.8	152.5	150.3
60°	155.9	152.5	148.1	143.6	142.5	140.3	136.9	134.7	133.6	129.2	126.9
62.5°	136.9	133.6	129.2	124.7	123.6	121.4	116.9	114.7	112.5	108.0	105.8
65°	119.1	115.8	111.3	106.9	104.7	103.5	99.1	95.8	93.5	90.2	85.7
67.5°	102.4	99.1	94.6	89.1	89.1	85.7	82.4	79.1	75.7	72.4	69.0
70°	86.8	83.5	79.1	74.6	73.5	71.3	67.9	63.5	61.2	56.8	53.4
72.5°	72.4	69.0	64.6	60.1	59.0	56.8	53.4	49.0	45.6	42.3	39.0
75°	59.0	55.7	51.2	47.9	46.8	44.5	41.2	36.7	33.4	31.2	27.8
77.5°	46.8	43.4	40.1	36.7	35.6	33.4	30.1	27.8	24.5	22.3	18.9
80°	35.6	33.4	30.1	27.8	26.7	24.5	22.3	18.9	16.7	14.5	13.4
82.5°	25.6	23.4	21.2	17.8	17.8	15.6	14.5	12.2	10.0	8.9	7.8
85°	14.5	12.2	11.1	10.0	8.9	8.9	7.8	6.7	5.6	4.5	4.5
87.5°	4.5	4.5	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2
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°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	796.1	797.2	795.0	797.2	795.0	796.1	793.9	796.1	793.9	796.1	791.6
5°	788.3	788.3	785.0	787.2	785.0	786.1	781.6	782.7	780.5	782.7	778.3
7.5°	774.9	776.0	770.5	772.7	769.4	769.4	766.0	767.1	763.8	764.9	761.6
10°	759.3	758.2	752.7	754.9	750.4	750.4	747.1	747.1	742.6	743.8	739.3
12.5°	737.1	736.0	729.3	731.5	727.1	727.1	723.7	723.7	719.3	721.5	717.0
15°	711.5	710.4	703.7	704.8	700.3	700.3	695.9	697.0	693.7	695.9	691.4
17.5°	682.5	681.4	674.7	675.8	670.3	671.4	668.0	666.9	664.7	665.8	662.5
20°	652.5	650.2	643.6	644.7	642.4	639.1	636.9	638.0	635.8	638.0	634.6
22.5°	621.3	616.8	611.3	611.3	609.0	609.0	605.7	607.9	603.5	606.8	604.6
25°	585.7	582.3	577.9	580.1	575.6	575.6	572.3	573.4	571.2	573.4	571.2
27.5°	551.1	548.9	542.2	544.5	541.1	542.2	538.9	540.0	538.9	541.1	538.9
30°	514.4	513.3	508.8	508.8	507.7	506.6	505.5	505.5	504.4	507.7	505.5
32.5°	479.9	476.5	472.1	475.4	469.9	473.2	471.0	473.2	471.0	473.2	472.1
35°	444.3	443.1	437.6	438.7	437.6	437.6	436.5	436.5	436.5	439.8	439.8
37.5°	406.4	405.3	401.9	403.1	400.8	399.7	399.7	401.9	401.9	404.2	404.2
40°	369.7	370.8	367.4	367.4	366.3	366.3	366.3	368.5	367.4	369.7	368.5
42.5°	332.9	332.9	329.6	330.7	329.6	330.7	330.7	332.9	332.9	334.0	332.9
45°	298.4	298.4	297.3	298.4	296.2	297.3	296.2	298.4	297.3	298.4	298.4
47.5°	263.9	263.9	263.9	262.8	262.8	262.8	262.8	262.8	261.7	263.9	262.8
50°	231.6	232.7	231.6	231.6	230.5	231.6	230.5	230.5	228.2	229.4	229.4
52.5°	202.6	202.6	200.4	200.4	200.4	199.3	199.3	199.3	198.2	198.2	196.0
55°	174.8	174.8	172.6	172.6	171.5	170.4	169.2	169.2	165.9	165.9	162.6
57.5°	149.2	148.1	144.7	144.7	142.5	141.4	140.3	139.2	136.9	134.7	133.6
60°	125.8	123.6	121.4	120.2	118.0	115.8	113.6	111.3	109.1	108.0	106.9
62.5°	103.5	100.2	98.0	96.9	94.6	91.3	89.1	86.8	84.6	83.5	81.3
65°	83.5	80.2	76.8	75.7	73.5	71.3	67.9	65.7	63.5	62.4	62.4
67.5°	65.7	62.4	57.9	57.9	55.7	53.4	51.2	49.0	47.9	49.0	49.0
70°	49.0	46.8	43.4	42.3	40.1	37.9	36.7	36.7	36.7	37.9	36.7
72.5°	36.7	33.4	31.2	30.1	28.9	27.8	27.8	27.8	26.7	27.8	27.8
75°	25.6	23.4	21.2	21.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0
77.5°	17.8	15.6	14.5	14.5	14.5	13.4	13.4	13.4	13.4	13.4	13.4
80°	11.1	11.1	10.0	10.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	6.7	6.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
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°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	791.6	795.0	790.5	793.9	792.7	791.6	789.4	793.9
5°	778.3	779.4	774.9	779.4	778.3	776.0	773.8	778.3
7.5°	759.3	762.7	757.1	761.6	760.5	758.2	756.0	760.5
10°	738.2	741.5	737.1	740.4	740.4	738.2	734.8	739.3
12.5°	714.8	717.0	712.6	717.0	715.9	713.7	712.6	715.9
15°	689.2	692.5	688.1	691.4	690.3	689.2	688.1	691.4
17.5°	661.4	664.7	661.4	664.7	664.7	661.4	660.3	662.5
20°	633.5	635.8	632.4	635.8	634.6	634.6	632.4	635.8
22.5°	602.4	605.7	603.5	605.7	604.6	604.6	603.5	605.7
25°	571.2	574.5	571.2	574.5	573.4	573.4	571.2	576.7
27.5°	540.0	542.2	538.9	543.3	542.2	540.0	541.1	542.2
30°	506.6	508.8	506.6	509.9	509.9	509.9	507.7	509.9
32.5°	473.2	476.5	473.2	476.5	475.4	475.4	474.3	476.5
35°	439.8	440.9	438.7	442.0	442.0	443.1	440.9	444.3
37.5°	405.3	406.4	405.3	406.4	408.6	405.3	407.5	408.6
40°	369.7	371.9	370.8	371.9	371.9	373.0	371.9	373.0
42.5°	334.0	336.2	334.0	337.4	336.2	336.2	337.4	337.4
45°	297.3	300.6	298.4	300.6	301.7	300.6	300.6	302.8
47.5°	262.8	265.0	263.9	265.0	265.0	265.0	265.0	267.2
50°	228.2	229.4	229.4	230.5	230.5	231.6	229.4	230.5
52.5°	193.7	196.0	196.0	196.0	194.8	196.0	196.0	196.0
55°	162.6	163.7	161.4	163.7	163.7	162.6	162.6	164.8
57.5°	132.5	132.5	132.5	132.5	132.5	131.4	132.5	132.5
60°	104.7	105.8	104.7	104.7	104.7	104.7	103.5	105.8
62.5°	81.3	81.3	80.2	81.3	81.3	81.3	82.4	82.4
65°	63.5	64.6	63.5	64.6	64.6	64.6	64.6	65.7
67.5°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
70°	37.9	37.9	37.9	39.0	37.9	37.9	37.9	39.0
72.5°	27.8	27.8	27.8	27.8	27.8	27.8	28.9	28.9
75°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
77.5°	13.4	13.4	13.4	14.5	13.4	14.5	13.4	13.4
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
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)